CARVER

Model CT-17

SERVICE MANUAL

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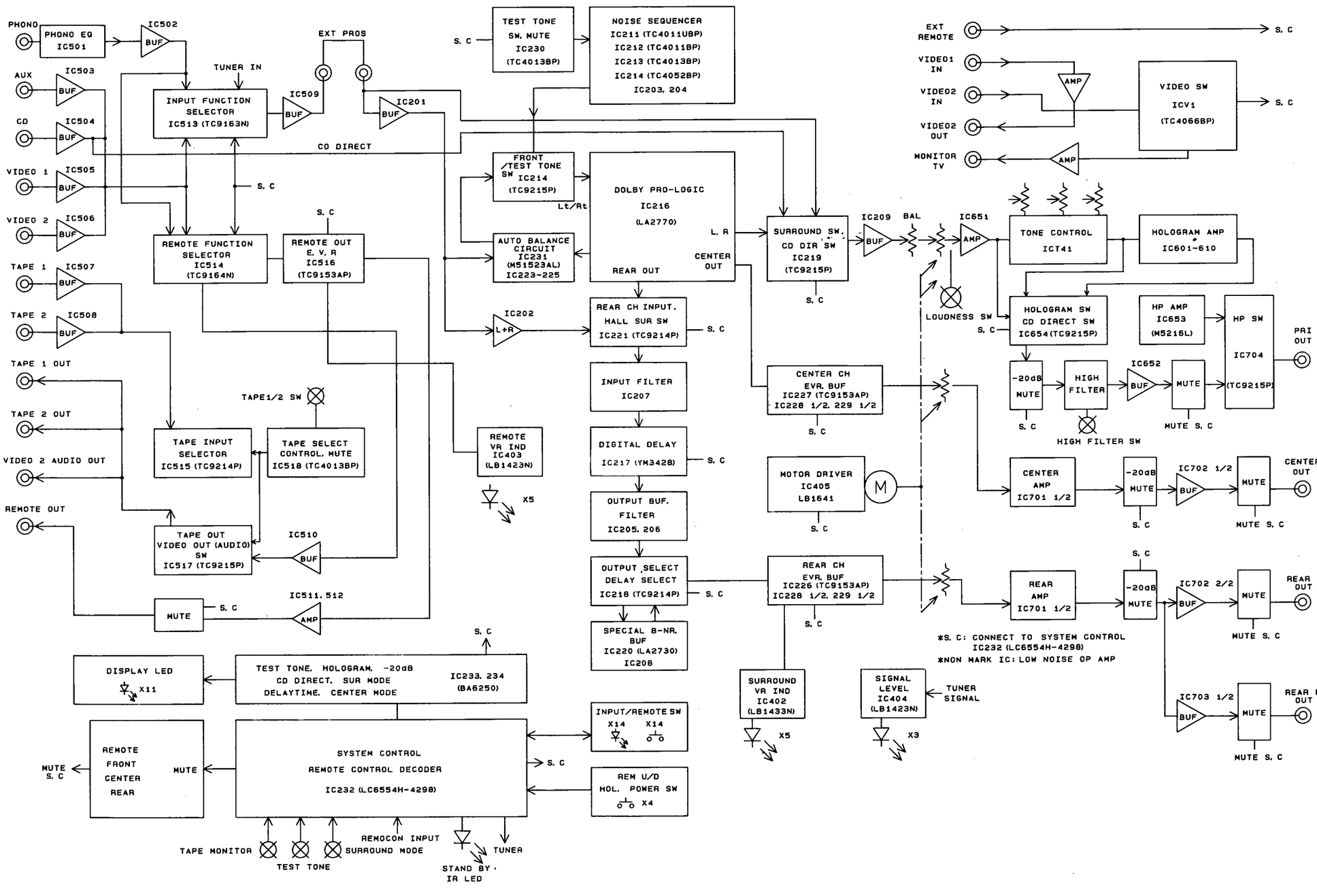
SPECIFICATIONS

PHONO:	
RIAA+1.0 dB "extended" RIAA curve Overload:	150 mV at 1 kHz
Frequency Response:	20 Hz-20 kHz ±0.5 dB (High Cut Filter, Tone, Hologram OUT)
SENSITIVITY:	
Phono:	2.7 mV
CD/Tape/AUX:	180 mV
NOISE:	
Phono:	84 dB, IHF A-weighted, below 5 Vrms at 1 kHz
Line Level:	98 dB, IHF A-weighted, below 2 Vrms
DISTORTION:	
THD:	0.01% or less, below 3 Vrms
IM (CCIR or SMPTE):	0.05% or less
TIM:	unmeasurable
RATED OUTPUT:	6V
SONIC HOLOGRAM GENERATOR:	
Image Resolution:	5 horizontal, 20 vertical
S/N ratio at rated reference:	greater than 85 dB
TONE CONTROLS:	
Turnover:	100 Hz, 1 kHz, 10 kHz
Boost/Cut:	±8 dB for bass and treble, ±6 dB for midrange
Loudness:	+3 dB at 100 Hz
MUTE EFFECT:	−20 dB
HEADPHONE:	
Sensitivity at preout 1 V:	125 mV
Maximum output at preout 1 V:	400 dB
TUNER SECTION:	
FM IHF Usable Sensitivity:	14.3 dBf
FM Sensitivity for 50 dB quieting (mono):	18.3 dBf
FM S/N:	78 dB
FM IF Rejection:	82 dB
FM Capture Ratio:	3.0 dB
FM Harmonic Distortion:	0.10%
FM Alternate Channel Selectivity:	72 dB
AM Suppression:	62 dB
FM Stereo Separation:	46 dB
AM THD (2 mV) 30% Modulation:	1.2%
AM Selectivity at S/N 20 dB±10 kHz:	38 dB
AM Image Rejection:	46 dB
AM IF Rejection:	65 dB
VIDEO SECTION:	
Frequency Response:	10 Hz-5 MHz ±1.5 dB
Input Impedance:	75 ohms
Video Input and Output:	1.0 Vp-p
SIZE:	19"×3-1/2"×12.25"
WEIGHT:	12 lbs (5.4 kg)

BLOCK DIAGRAM

Audio/Video/Surround



FM
75Ω
AM LOOP ANTENNA
FM FRONT END UNIT
RF AMP.
FM MIXER
FM OSC BUFFER
Vtune
AM OSC
10.7MHz FILTER
IF AMP.
10.7MHz FILTER
BUFFER AMP
FM VCO
PRESCALER
LPF
PLL SYSTEM CONTROLLER
FREQUENCY DISPLAY
S.C
A.C.C.D SW.
UP/DOWN MEMORY/MONO PRESET1~20 AUTO SCAN PRESET SCAN
SIGNAL
AM/FM IF AMP. DETECTOR SYSTEM
FM MPX
19KHz/38KHz FILTER
FM A.C.C.D
TUNER OUT
A.C.C.D SW.
POWER SUPPLY
±15V
+12V
+5.6V SW.
MAIN TRANSFORMER
BACKUP TRANSFORMER
POWER RELAY
S.C ON/OFF
AC 120V 50Hz
POWER SUPPLY
±5.6V BACKUP

ALIGNMENT PROCEDURES

Tuner (AM)

Condition

1. Tuning method: LOCKED indicator, ON
2. Modulation: 400 Hz, 30 %
3. TAPE OUT load: A 100 kΩ resistor shunted by a 1000 pF capacitor
4. Input level: 74 dB/m (5 mV/m) unless otherwise noted
5. Generator output: IRE loop antenna 24" (60cm) spacing or through IHF dummy (200 pF capacitor).
6. CH.STEP switch (SW459): US position (EX version only)
7. Preheat: More than 1 minute

TUNING VOLTAGE

1. Set the tuner frequency to 520 kHz.
2. No input.
3. Connect the DC digital volt meter to the test point TP1.
4. The voltage of AM Low end changes for the color of D1 and D2. (See Fig.2)
5. Adjust T4 until the voltage is 1.00±0.05 V or 0.95±0.05 V, depending on the color of D1 and D2.
6. Change the tuner frequency to 1710 kHz.
7. Adjust TC1 until the voltage is nearly 8 V.

IF

1. Set the tuner frequency to the point of non-interference.
2. Connect the output of IF sweep generator to AM antenna terminal through IHF dummy and set the frequency to 450±0.5 kHz.
3. Connect the input of IF sweep generator to the test point TP3 through a 10 μF cap.
4. Adjust T3 until the output waveform is flat and maximum.

TRACKING

1. Set the tuner frequency to 600 kHz.
2. Connect the output of signal generator to AM antenna terminal through IHF dummy and set the frequency to 600 kHz.
3. Connect the ACVM to TAPE OUT jacks.
4. Adjust T1 until the ACVM is maximum.
5. Change the tuner frequency from 600 kHz to 1400 kHz.
6. Change the frequency from 600 kHz to 1400 kHz.
7. Adjust TC1 until the ACVM is maximum.

SCAN STOP LEVEL

1. Set the tuner frequency to 1000 kHz.
2. Connect the DC digital volt meter to the test point TP4.
3. Set the input level to 54 dB/m.
4. Connect the output of signal generator to IRE loop antenna and set the frequency to 1000 kHz.
5. Adjust SVR1 until the voltage changes 12 V from 0 V at the test point TP4.

Tuner (FM)

Condition

1. Tuning method: Adjust desired signal frequency.
   Reception frequency, 98.00 MHz
2. Generator: Mono.....Mod. 1 kHz, 75 kHz dev.
   Stereo...Mod. 1 kHz, 68.25 kHz +6.75 kHz dev.
3. TAPE OUT load: A 100 kΩ resistor shunted by a 1000 pF capacitor
4. Input level: 65.2 dBf (500 μV) unless otherwise noted
5. De-Emphasis switch (SW51): 75 μs position (EX version only)
6. AUTO SCAN switch: OFF position
7. Preheat: More than 1 minute

TUNING VOLTAGE

1. Set the tuner frequency to 87.50 MHz.
2. No input.
3. Connect the DC digital volt meter to the test point TP1.
4. Adjust OSC-L(Front-end) until the voltage is 1.6±0.3 V.
5. Change the tuner frequency from 87.50 MHz to 108.00 MHz.
6. Check that the voltage is between 8.0+2.1 V and 8.0−1.0 V.

IF

1. Set the input level to 12.2~14.2 dBf (1.12~1.41 μV).
2. Connect the output of signal generator to 75 ohm antenna terminal through a matching dummy and set the frequency to 98.00 MHz.
3. Connect the ACVM and the distortion meter to TAPE OUT jacks.
4. Connect the DC digital volt meter to the test point TP2.
5. Adjust IFT (Front-end) until the ACVM is maximum or the distortion meter is minimum.
6. Change the input level from 12.2~14.2 dBf (1.12~1.41 μV) to 65.2 dBf (500 μV).
7. Adjust T2 (a) until the voltage is less than 1 mV.
8. Adjust T2 (b) until the distortion meter is less than 0.3%.

TRACKING

1. Set the input level to 12.2~14.2 dBf (1.12~1.41 μV).
2. Connect the output of signal generator to 75 ohm antenna terminal through a matching dummy and set the frequency to 98.00 MHz.
3. Connect the ACVM to TAPE OUT jacks.
4. Adjust ANT-L and RF1-L (Front-end) until the ACVM is maximum.

MUTING LEVEL

1. Connect the output of signal generator to 75 ohm antenna terminal through a matching dummy and set the frequency to 98.00 MHz.
2. Connect the DC digital volt meter to the test point TP4.
3. Set the input level to 33.2 dBf (12.5 μV).
4. Adjust SVR2 until the voltage changes 12 V from 0 V at the test point TP4.

SIGNAL LEVEL

1. Set the input level to 65.2 dBf (500 μV).
2. Connect the output of signal generator to 75 ohm antenna terminal through a matching dummy and set the frequency to 98.00 MHz.
3. Adjust SVR60 until the SIGNAL indicators fully light up.

SEPARATION

1. Connect the output of signal generator to 75 ohm antenna terminal through a matching dummy and set the frequency to 98.00 MHz in separate R ch or L ch.
2. Connect the ACVM to TAPE OUT jacks.
3. Adjust SVR51 until both channels have maximum but equal separation.

FM A.C.C.D SWITCHING LEVEL

1. Set the input level to 55.2 dBf (158 μV).
2. Connect the DC digital volt meter to the test point TP101.
3. Adjust SVR101 the moment the voltage at TP101 change from +8 V to −8 V. Rotate SVR101 slowly. Perform this adjustment after MUTING LEVEL adjustment.

FM A.C.C.D SEPARATION

1. Set the input level to 37.5 dBf (75 μV).
2. Set generator Mod. 6.3 kHz, 49.5 kHz +6.75 kHz dev.
3. L ch only driven.
4. Connect the ACVM to TAPE OUT jacks.
5. A.C.C.D switch on.
6. Adjust SVR117 to 8 dB separation.

ALIGNMENT POINTS

TIM-812A Tuner P.C.Board

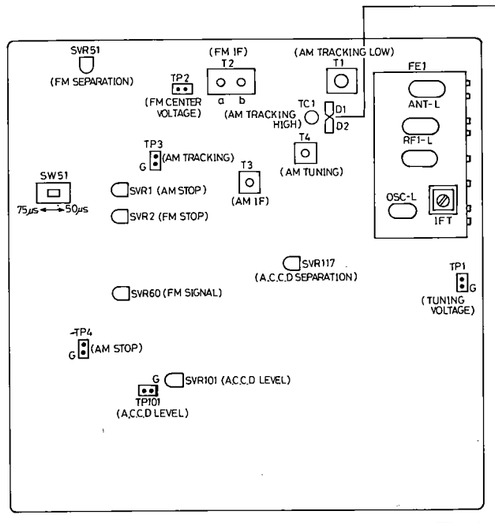
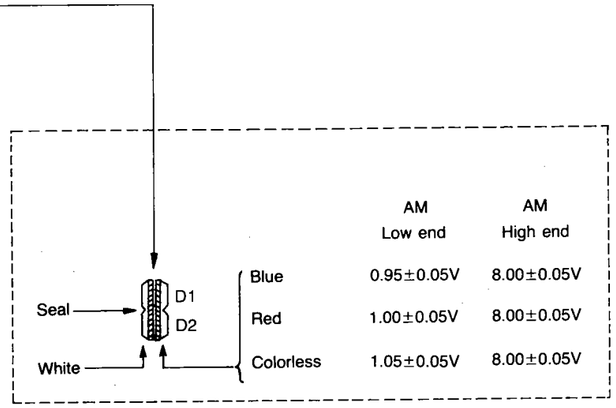


Fig.1



	AM Low end	AM High end
Blue	0.95±0.05V	8.00±0.05V
Red	1.00±0.05V	8.00±0.05V
Colorless	1.05±0.05V	8.00±0.05V

Fig.2

FL-828B Display & DTS P.C.Board

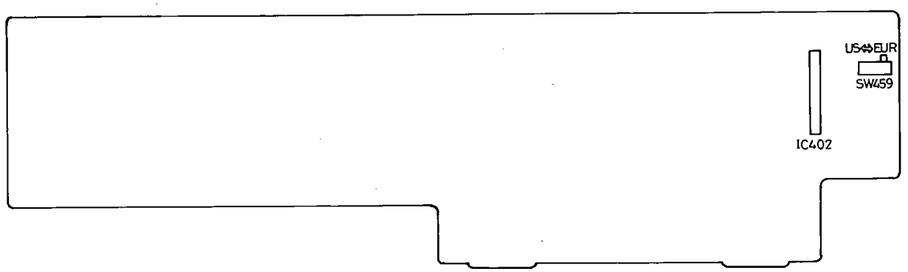


Fig.3

Amplifier

Condition
Surround mode : DOLBY PROLOGIC

VCA
1. Apply a 1 kHz 200 mV signal equally to the left and right of AUX input terminal, CT-17.
2. Shorting jumper across pin 1 and pin 2 of the test point TP201 .
3. Connect the ACVM to the PREOUT left and right jacks.
4. Set the VOLUME control to the suitable position.
5. Adjust SVR204 until the output is minimum at L and R.

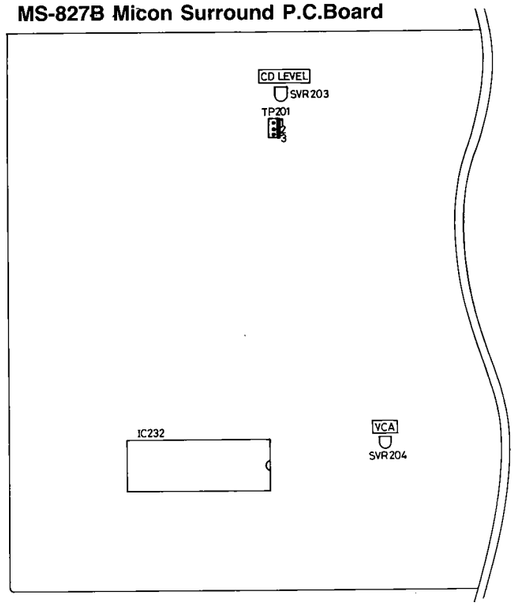
DC OFFSET
1. Apply a 1 kHz 200 mV signal equally to the left and right of AUX input terminal, CT-17.
2. Shorting jumper across pin 1 and pin 2 of the test point TP201.
3. Connect the DC digital volt meter between shorting jumper (tentative GND) and pin 3 of the test point TP201.
4. Adjust SVR203 for minimum DC offset.

DOLBY LEVEL
"Use Pro-Logic Test Input Circuit in Fig.6."
1. Apply a 1 kHz 350 mV to the Pro-Logic Test Input Circuit and set the surround position (position 4).
2. Connect the output of Pro-Logic Test Input Circuit to the AUX input terminal, CT-17.
3. Connect the ACVM to the test point TP202 (R294).
4. Adjust SVR202 to 71 mV ±1 dB.

CALIBRATE TONE LEVEL
1. CALIBRATE TONE switch : ON position.
2. Connect the ACVM to the test point TP203.
3. Adjsut SVR201 to 77.5 mV ±2 dB.

ALIGNMENT POINTS

MS-827B Micon Surround P.C.Board



VDN-829A Video P.C.Board

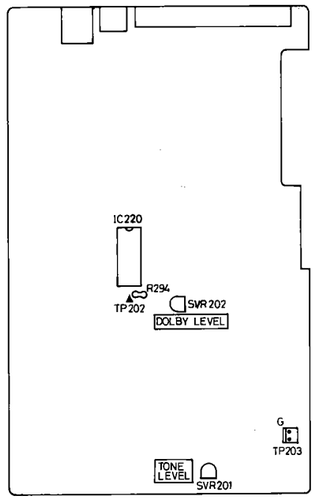


Fig.4 Fig.5

Dolby Pro-Logic Test Input Circuit

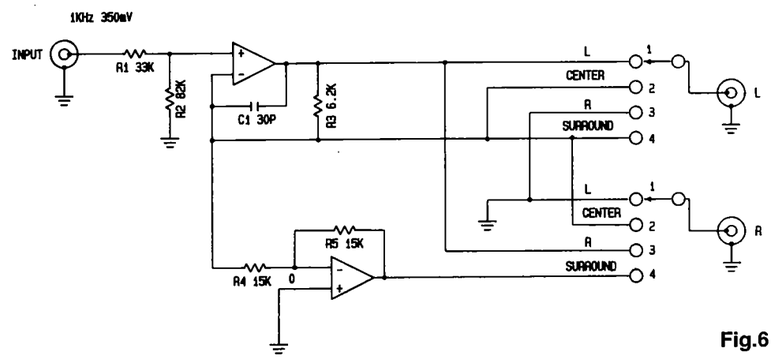
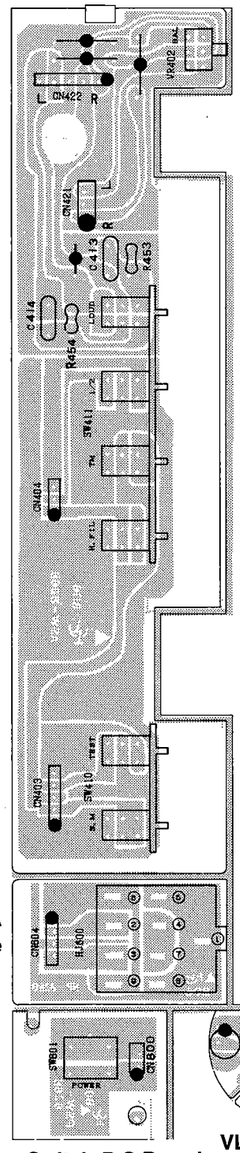


Fig.6

PCB COMPONENT SIDE VIEWS

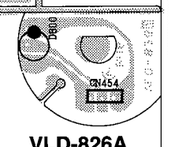
ASW-826A Audio Switch P.C.Board



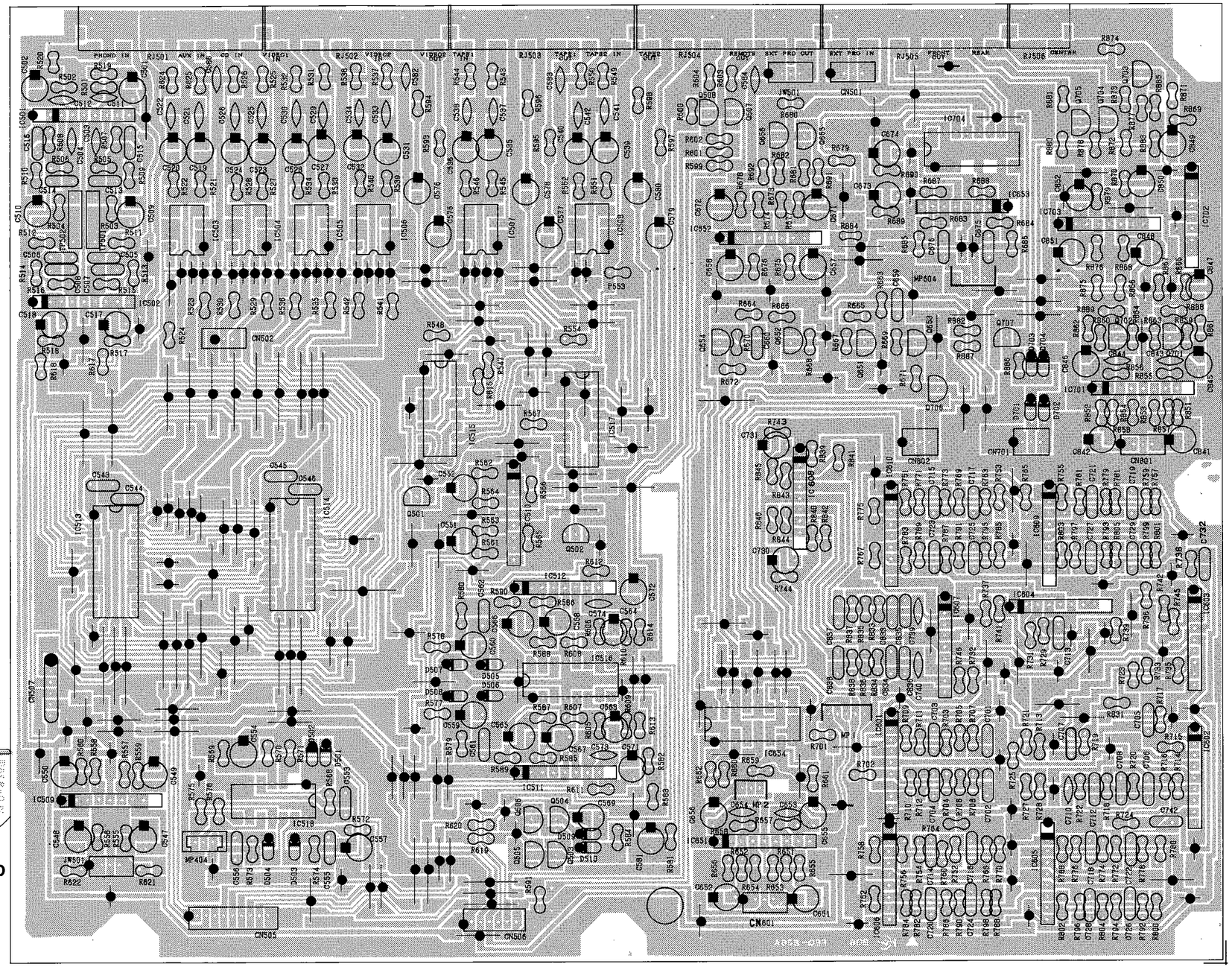
HP-826A Headphone P.C.Board

PSW-826A Power Switch P.C.Board

VLD-826A Volume LED P.C.Board

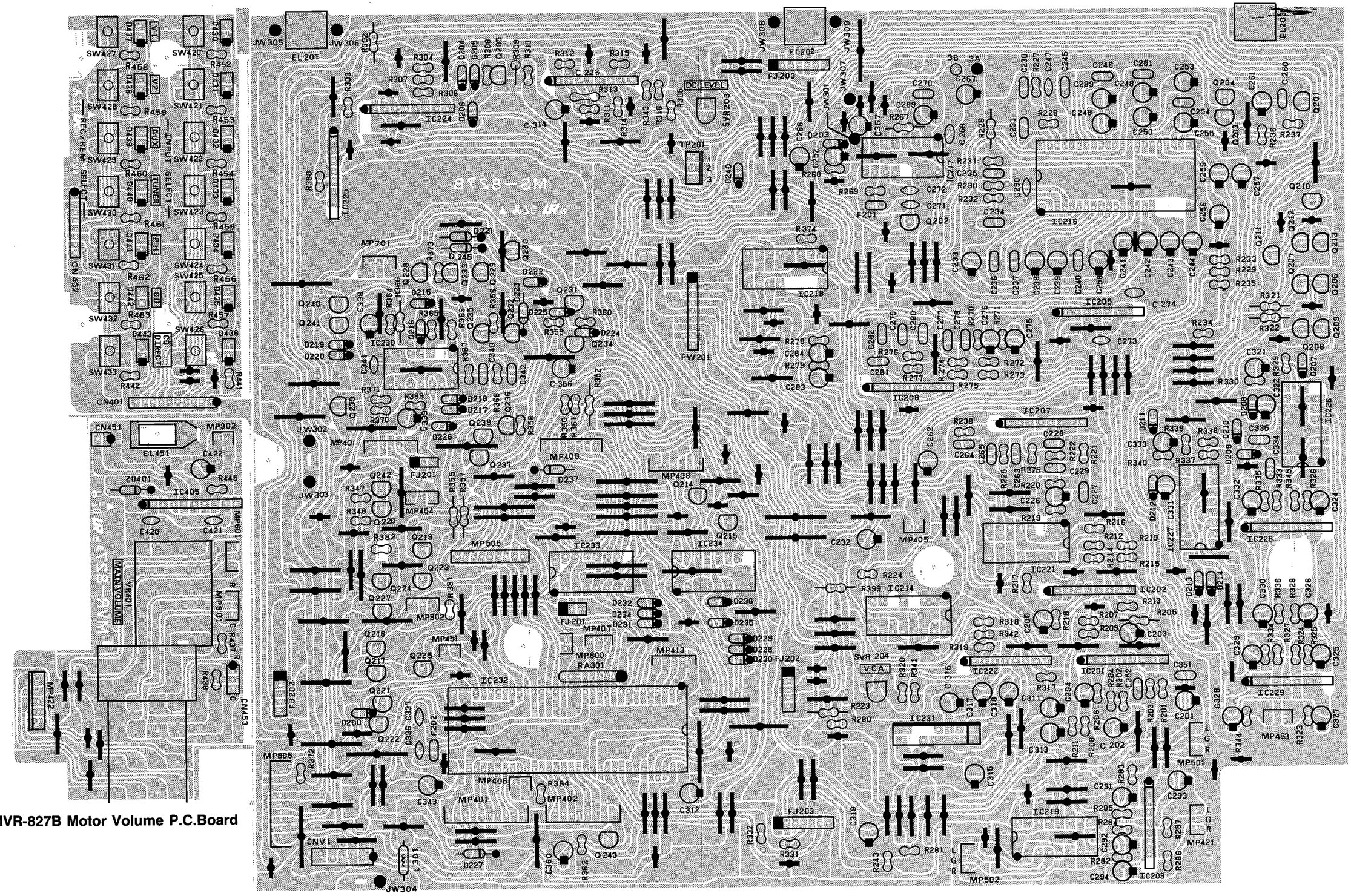


FEQ-826A Function & EQ P.C.Board



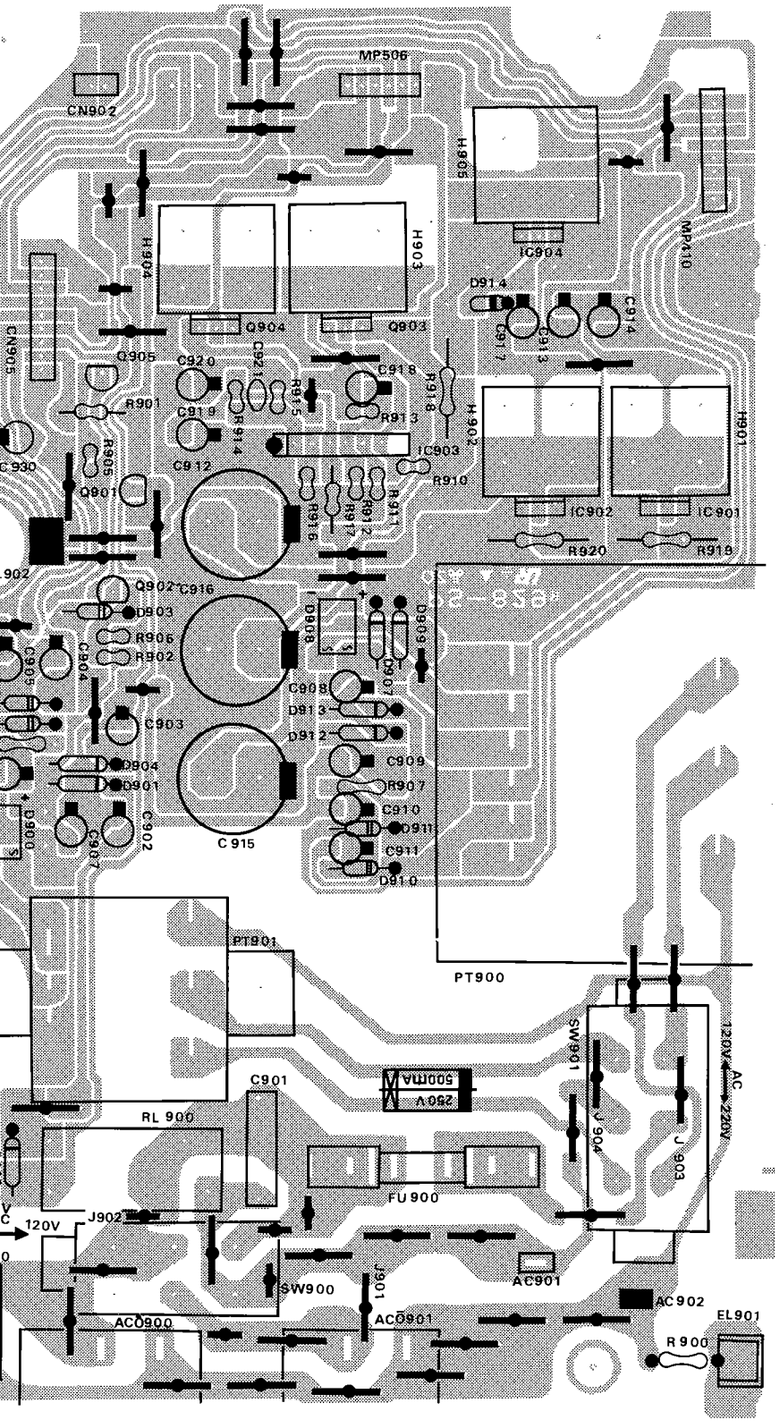
FSW-827B Front Switch P.C.Board

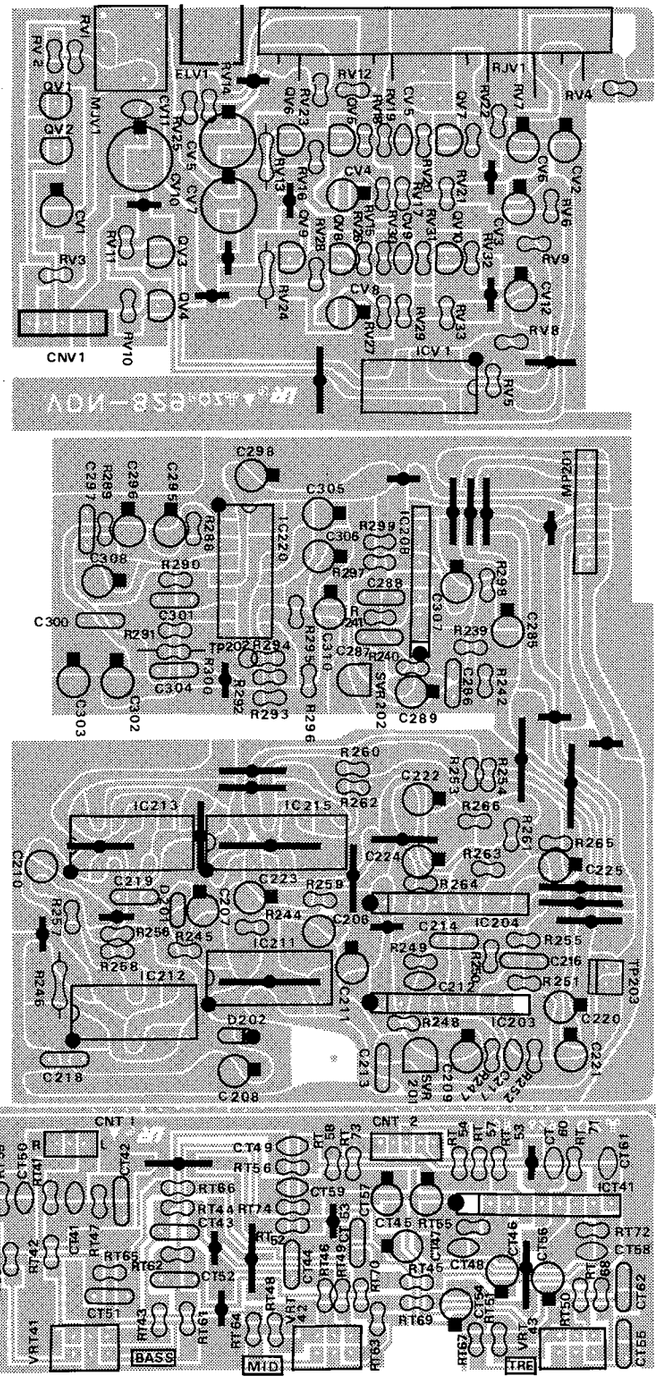
MS-827B Micon Surround P.C.Board



MVR-827B Motor Volume P.C.Board

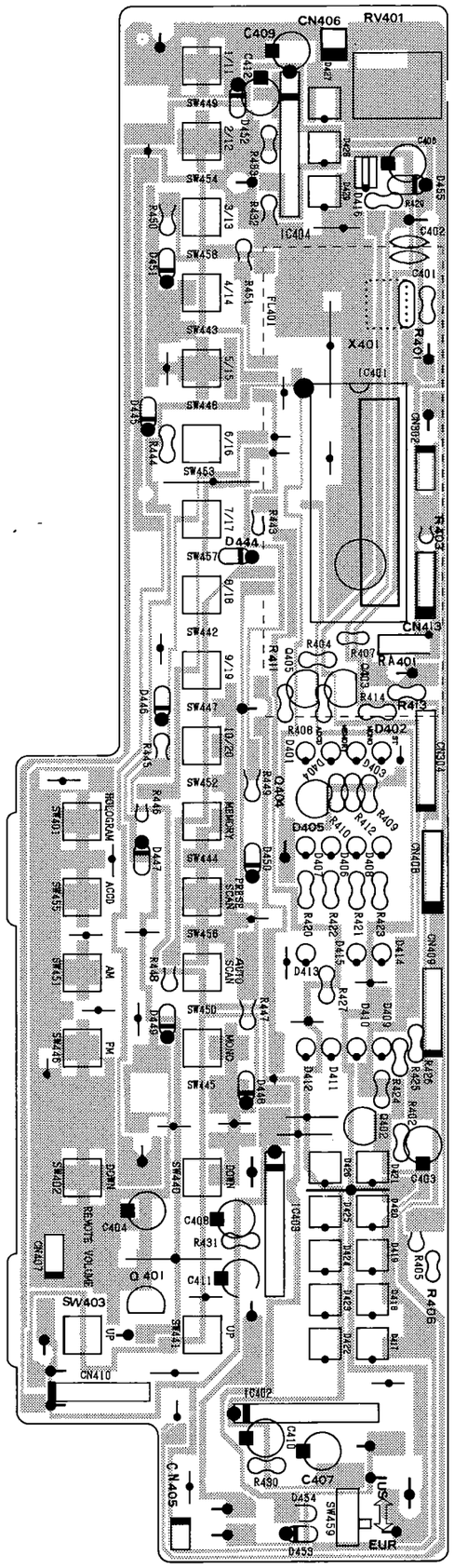
VDN-829A Video P.C.Board



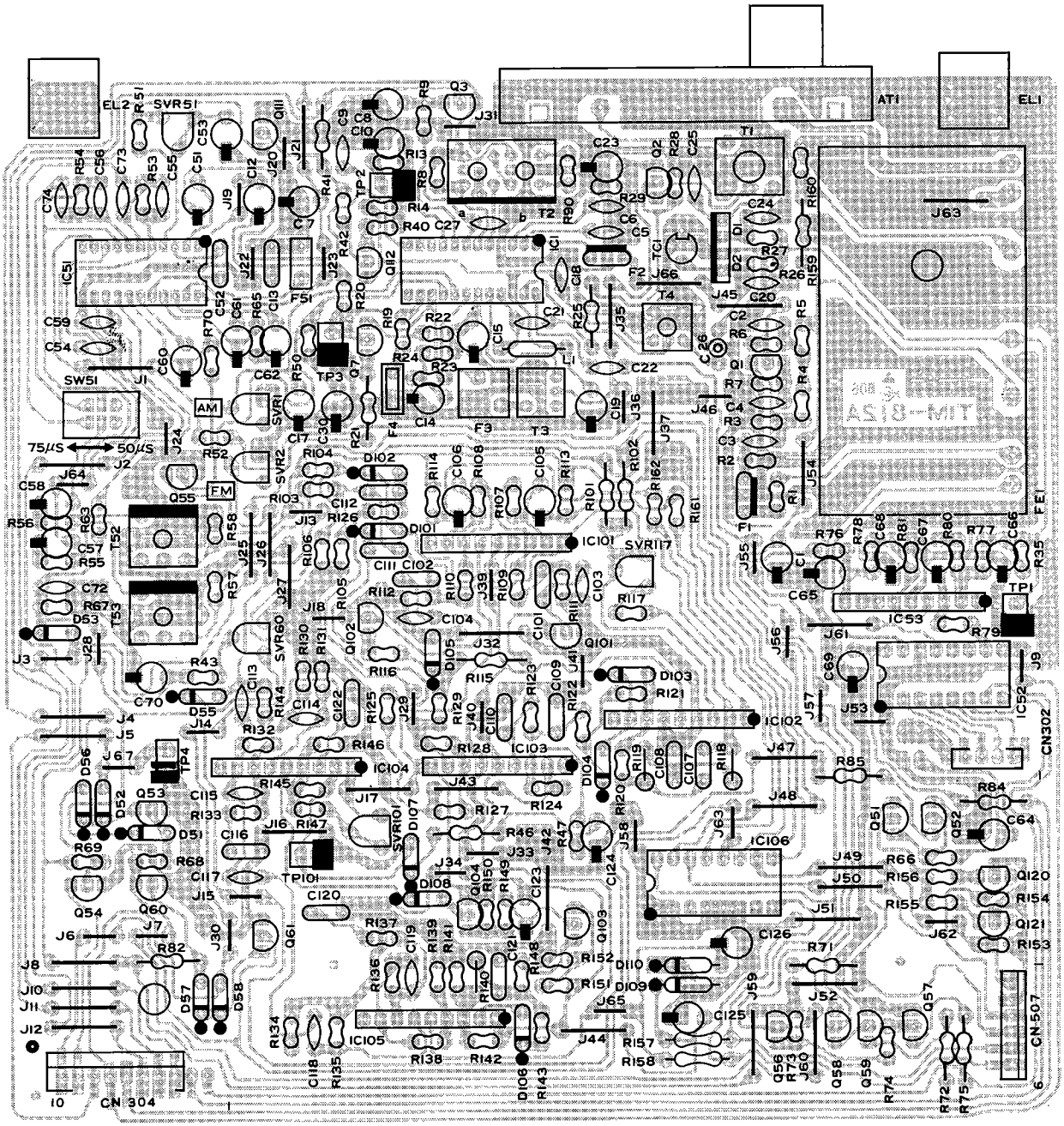


PS-829A Power Supply P.C.Board

FL-828B Display & DTS P.C.Board



TIM-812A Tuner P.C.Board



VOLTAGE CONVERSION (EX Version only)

220 V/50 Hz Version

Bill of Materials

Q'ty	Part No.	Description
1	315-15005-00	FUSE 250 V 315 mA
1	530-10128-00	FUSE LABEL 250 V 315 mA
1	530-10088-00	LABEL 220 V AC 50 HZ
1	530-10130-00	LABEL VOLTAGE CONVERSION
1	530-10013-00	LABEL MILITARY CONVERSION

Direction for Change

1. Locate Power Supply P.C.Board on the left of front panel side. (See Fig.7 and Fig.8.).
   A. Set slide switches SW900 and SW901 to 220 V.
   B. Change fuse FU900 from 250 V 500 mA to 315-15005-00 (250 V 315 mA).
   C. Put the label 530-10128-00 (250 V 315 mA) on printed in 250 V/500 mA.

PS-829A Power Supply P.C.Board

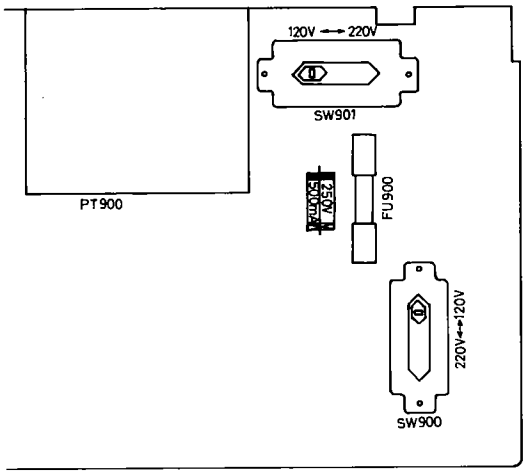


Fig.7

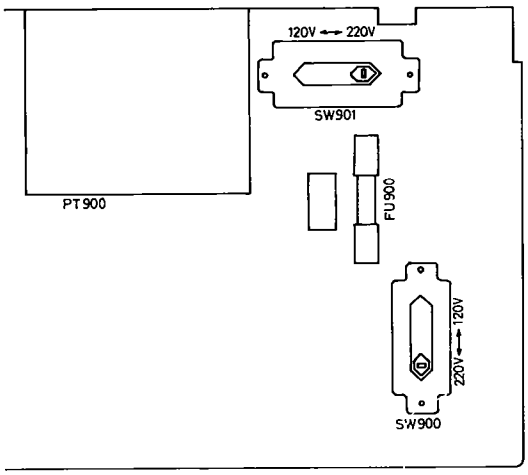


Fig.8

2. Locate CH.STEP SW459 on Display & DTS P.C.Board and set it to "EUR" for 220 V Europe frequency stepping. (See Fig.9)
3. Locate de-emphasis switch SW51 on Tuner P.C.Board and set it to "50 μs" for 220 V Europe de-emphasis. (See Fig.10)
4. Apply label 530-10088-00 (220 V AC 50 Hz) in place of existing label 120 V AC 60 Hz.
5. Using spray adhesive, mount label 530-10130-00 (VOLTAGE CONVERSION) to inside top cover.
6. Apply label 530-10013-00 (MILITARY CONVERSION) to bottom of unit.

FL-828B Display & DTS P.C.Board

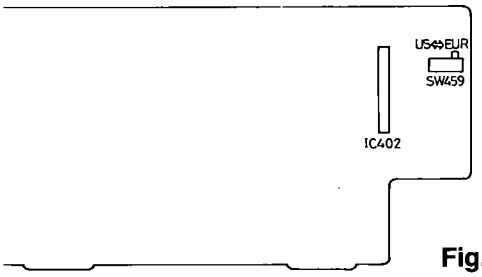


Fig.9

TIM-812A Tuner P.C.Board

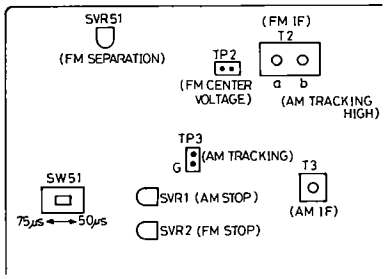
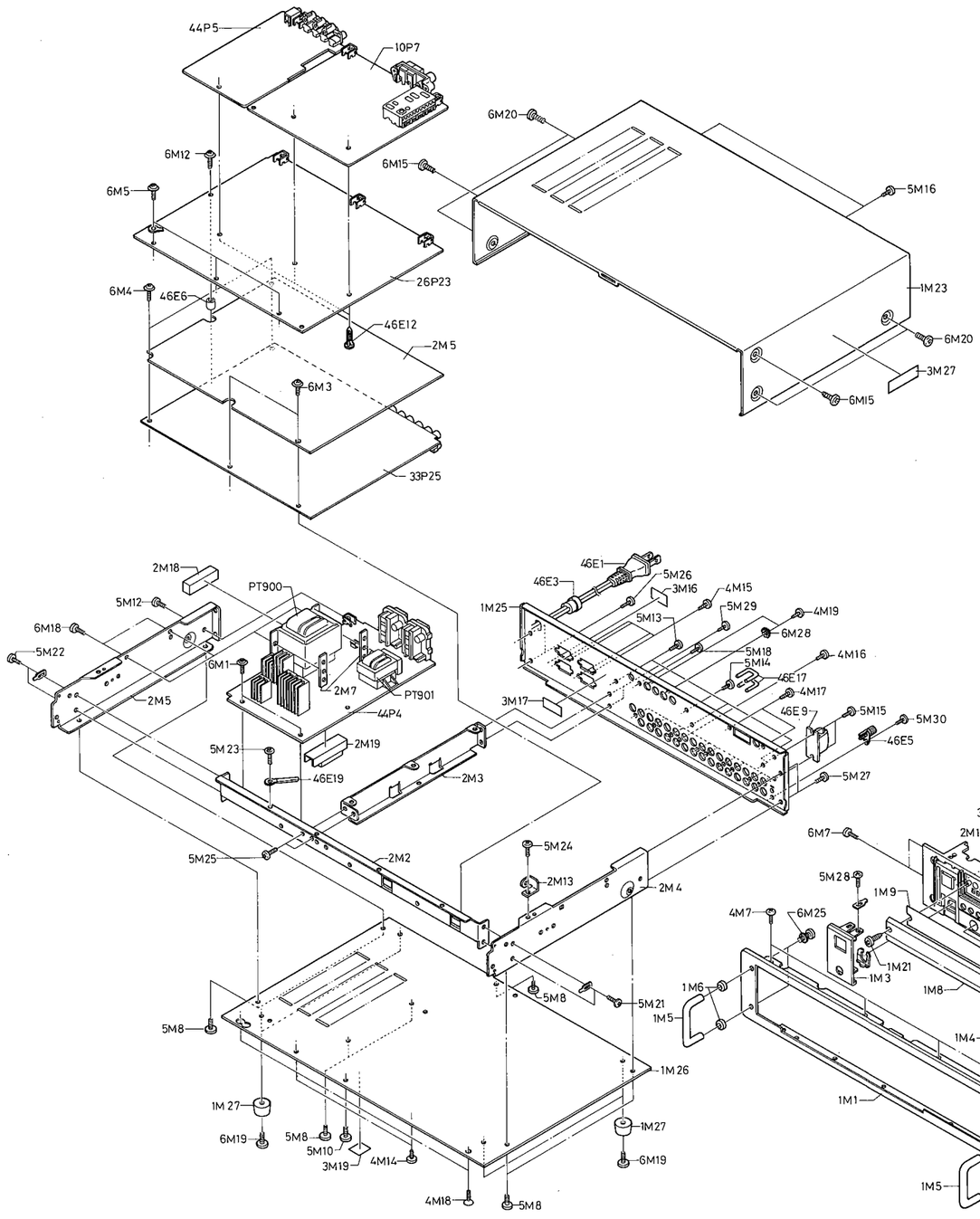
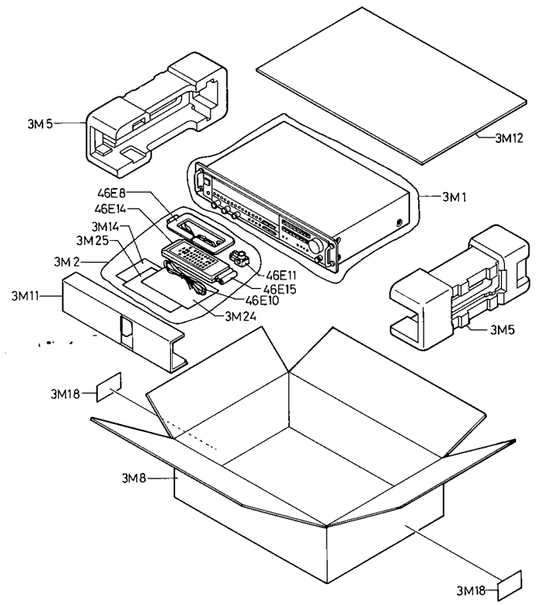


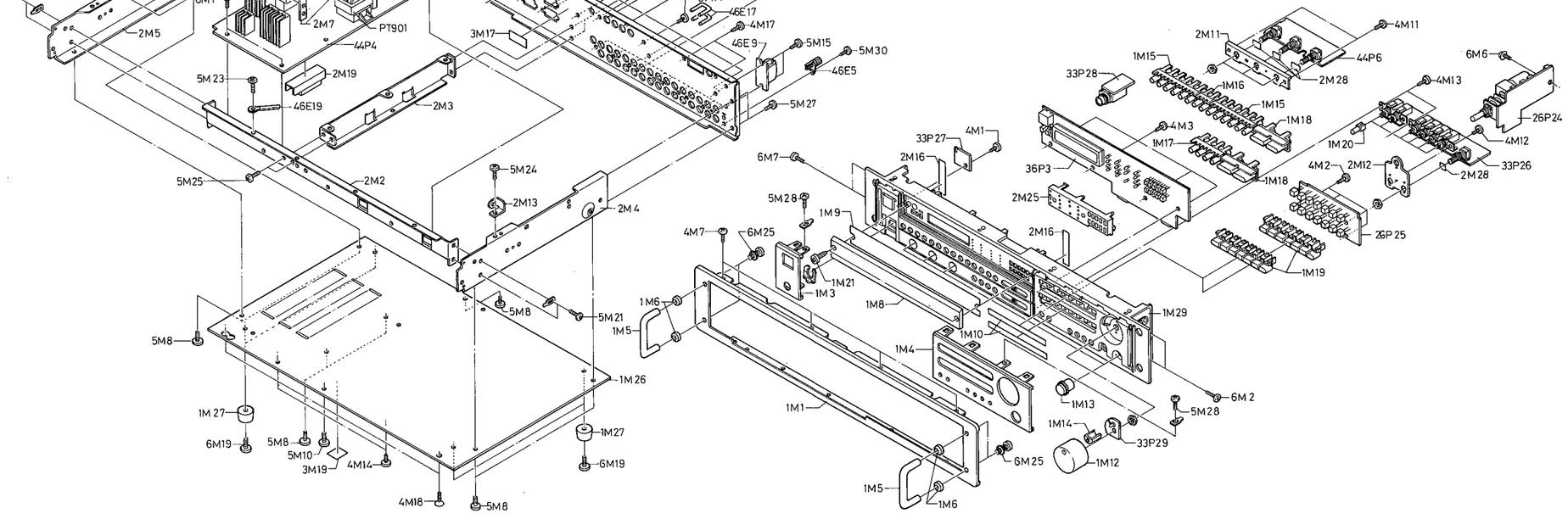
Fig.10

EXPLODED VIEWS

Main Unit and Packing







PARTS LIST

TUNER P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
10E 7	1	TIM-812A	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
Q001,002	2	KV1236Z-Z1	DIODE
D051~053, 055~058, 101~118	15	1SS176	DIODE
D109,110	2	ZD50-090	ZENER DIODE, 1/2W, 9.0V
Q001	1	2SC2668-D,Y	TRANSISTOR
Q002	1	2SK161-Y,GR	TRANSISTOR
Q003	1	RN-2204	TRANSISTOR
Q007	1	2SC1815-Y,GR	TRANSISTOR
Q051	1	RN-2204	TRANSISTOR
Q052	1	2SC1815-Y,GR	TRANSISTOR
Q053~055	3	RN-1204	TRANSISTOR
Q056	1	2SA966-D,Y	TRANSISTOR
Q057	1	2SC1815-Y,GR	TRANSISTOR
Q058	1	RN-2204	TRANSISTOR
Q059	1	2SC1815-Y,GR	TRANSISTOR
Q060,061	2	RN-1204	TRANSISTOR
Q101~103	3	2SC1815-GR	TRANSISTOR
Q104	1	2SA1015-GR	TRANSISTOR
Q111	1	RN-1204	TRANSISTOR
Q112	1	2SK246-Y,GR	TRANSISTOR
Q120,121	2	2SC2878-A,B	TRANSISTOR
IC001	1	LA1266	IC
IC051	1	LA3401	IC
IC052	1	TC9172AP	IC
IC053	1	NJM2904S	IC
IC101~105	5	NJM4565SB	IC
IC106	1	TC9215P	IC
CAPACITORS			
C001	1	NS-16TW101M	ELECTROLYTIC CAPACITOR
C002~006	5	HE90SJYF223Z	CERAMIC CAPACITOR
C007	1	NS-16TW221M	ELECTROLYTIC CAPACITOR
C008	1	NS-50TWR10M	ELECTROLYTIC CAPACITOR
C009	1	HE40SJSL330K	CERAMIC CAPACITOR
C010	1	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C012	1	NS-50TWR22M	ELECTROLYTIC CAPACITOR
C013	1	MY-50VU102J	MYLAR CAPACITOR
C014,015	2	NS-16TW100M	ELECTROLYTIC CAPACITOR
C017	1	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C018	1	HE90SJYF223Z	CERAMIC CAPACITOR
C019	1	NS-16TW100M	ELECTROLYTIC CAPACITOR
C020	1	HE40SJSL100D	CERAMIC CAPACITOR
C021,022	2	HE90SJYF223Z	CERAMIC CAPACITOR
C023	1	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C024	1	HE90SJYF223Z	CERAMIC CAPACITOR
C025	1	HE40SJSL110K	CERAMIC CAPACITOR
C026	1	ST-50VS451J	STYROL CAPACITOR
C027	1	HE90SJYF223Z	CERAMIC CAPACITOR
C030	1	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C031	1	NS-16TW470M	ELECTROLYTIC CAPACITOR
C032	1	MY-50VU473J	MYLAR CAPACITOR
C033	1	NS-16TW100M	ELECTROLYTIC CAPACITOR
C034	1	HE90SJYF223Z	CERAMIC CAPACITOR
C035,036	2	MY-50VU102J	MYLAR CAPACITOR
C037,038	2	NS-16TW100M	ELECTROLYTIC CAPACITOR
C039	1	HE90SJYF223Z	CERAMIC CAPACITOR
C050	1	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C051	1	NS-50TWR22M	ELECTROLYTIC CAPACITOR
C052,064	2	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C065	1	NS-16TW101M	ELECTROLYTIC CAPACITOR
C066	1	LL-50TW1R0M	LOW LEAK. ELECTROLYTIC CAP.
C067	1	LL-50TWR47M	LOW LEAK. ELECTROLYTIC CAP.
C068	1	NS-16TW100M	ELECTROLYTIC CAPACITOR
C069	1	NS-10TW470M	ELECTROLYTIC CAPACITOR
C070	1	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C072	1	HE40SJYB471K	CERAMIC CAPACITOR
C101,102	2	MY-50VU562J	MYLAR CAPACITOR
C103,104	2	HE50SJSL101K	CERAMIC CAPACITOR
C105,106	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C107	1	MY-50VU103J	MYLAR CAPACITOR
C108	1	MY-50VU223J	MYLAR CAPACITOR
C109~112	4	MY-50VU104J	MYLAR CAPACITOR
C113	1	HEY5SJSL561J	CERAMIC CAPACITOR
C114	1	HE40SJSL680K	CERAMIC CAPACITOR
C115	1	HE40SJSL470K	CERAMIC CAPACITOR
C116	1	MY-50VU182J	MYLAR CAPACITOR
C117	1	HEY5SJSL561J	CERAMIC CAPACITOR
C118	1	HE40SJSL680K	CERAMIC CAPACITOR
C119	1	HE40SJSL560K	CERAMIC CAPACITOR
C120	1	MY-50VU182J	MYLAR CAPACITOR
C121,122	2	MY-50VU104J	MYLAR CAPACITOR
C123	1	NS-50TW3R3M	ELECTROLYTIC CAPACITOR
C124	1	NS-16TW100M	ELECTROLYTIC CAPACITOR
C125,126	2	NS-10TW101M	ELECTROLYTIC CAPACITOR
TC001	1	CTZ51C135	TRIMMER CAPACITOR
RESISTORS			
R001	1	KA16ST330J	CARBON RESISTOR
R002	1	KA16ST361J	CARBON RESISTOR
R003	1	KA16ST103J	CARBON RESISTOR
R004	1	KA16ST133J	CARBON RESISTOR
R005	1	KA16ST151J	CARBON RESISTOR
R006	1	KA16ST331J	CARBON RESISTOR
R007	1	KA16ST102J	CARBON RESISTOR
R008	1	KA16ST103J	CARBON RESISTOR
R009	1	KA16ST101J	CARBON RESISTOR
R013	1	KA16ST331J	CARBON RESISTOR
R014	1	KA16ST273J	CARBON RESISTOR
R019	1	KA16ST820J	CARBON RESISTOR
R020	1	KA16ST102J	CARBON RESISTOR
R021	1	KA16ST474J	CARBON RESISTOR
R022	1	KA16ST152J	CARBON RESISTOR
R023	1	KA16ST203J	CARBON RESISTOR
R024	1	KA16ST512J	CARBON RESISTOR

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
R025	1	KA16ST221J	CARBON RESISTOR
R026,027	2	KA16ST104J	CARBON RESISTOR
R028	1	KA16ST102J	CARBON RESISTOR
R029	1	KA16ST683J	CARBON RESISTOR
R035	1	KA16ST332J	CARBON RESISTOR
R040	1	KA16ST103J	CARBON RESISTOR
R041	1	KA16ST473J	CARBON RESISTOR
R042	1	KA16ST105J	CARBON RESISTOR
R043	1	KA16ST473J	CARBON RESISTOR
R046	1	KA16ST123J	CARBON RESISTOR
R047	1	KA16ST223J	CARBON RESISTOR
R050	1	KA16ST123J	CARBON RESISTOR
R051	1	KA16ST223J	CARBON RESISTOR
R052	1	KA16ST473J	CARBON RESISTOR
R053,054	2	KA16ST753J	CARBON RESISTOR
R055,056	2	KA16ST332J	CARBON RESISTOR
R057,058	2	KA16ST203J	CARBON RESISTOR
R063	1	KA16ST682J	CARBON RESISTOR
R065	1	KA16ST562J	CARBON RESISTOR
R066	1	KA16ST102J	CARBON RESISTOR
R067	1	KA16ST473J	CARBON RESISTOR
R068,069	2	KA16ST103J	CARBON RESISTOR
R070	1	KA16ST104J	CARBON RESISTOR
R071	1	KA16ST151J	CARBON RESISTOR
R072	1	KA16ST103J	CARBON RESISTOR
R073	1	KA16ST104J	CARBON RESISTOR
R074,075	2	KA16ST103J	CARBON RESISTOR
R076	1	KA16ST221J	CARBON RESISTOR
R077	1	KA16ST331J	CARBON RESISTOR
R078	1	KA16ST124J	CARBON RESISTOR
R079	1	KA16ST473J	CARBON RESISTOR
R080	1	KA16ST822J	CARBON RESISTOR
R081	1	KA16ST183J	CARBON RESISTOR
R082	1	KA16ST103J	CARBON RESISTOR
R084	1	KA16ST101J	CARBON RESISTOR
R085	1	KA16ST223J	CARBON RESISTOR
R090	1	KA16ST332J	CARBON RESISTOR
R101,102	2	KA16ST513J	CARBON RESISTOR
R103,104	2	KA16ST683J	CARBON RESISTOR
R105,106	2	KA16ST103J	CARBON RESISTOR
R107,108	2	KA16ST683J	CARBON RESISTOR
R109,110	2	KA16ST622J	CARBON RESISTOR
R111,112	2	KA16ST332J	CARBON RESISTOR
R113,114	2	KA16ST104J	CARBON RESISTOR
R115,116	2	KA16ST204J	CARBON RESISTOR
R117	1	KA16ST333J	CARBON RESISTOR
R118,119	2	KA25SS106J	CARBON RESISTOR
R120	1	KA16ST113J	CARBON RESISTOR
R121	1	KA16ST184J	CARBON RESISTOR
R122	1	KA16ST153J	CARBON RESISTOR
R123	1	KA16ST154J	CARBON RESISTOR
R124	1	KA16ST333J	CARBON RESISTOR
R125,126	2	KA16ST105J	CARBON RESISTOR
R127,128	2	KA16ST472J	CARBON RESISTOR
R129	1	KA16ST103J	CARBON RESISTOR
R130	1	KA16ST512J	CARBON RESISTOR
R131	1	KA16ST513J	CARBON RESISTOR
R132	1	KA16ST433J	CARBON RESISTOR
R133	1	KA16ST152J	CARBON RESISTOR
R134	1	KA16ST512J	CARBON RESISTOR
R135	1	KA16ST513J	CARBON RESISTOR
R136	1	KA16ST273J	CARBON RESISTOR
R137	1	KA16ST152J	CARBON RESISTOR
R138	1	KA16ST132J	CARBON RESISTOR
R139	1	KA16ST103J	CARBON RESISTOR
R140	1	KA25SS475J	CARBON RESISTOR
R141	1	KA16ST164J	CARBON RESISTOR
R142	1	KA16ST225J	CARBON RESISTOR
R143	1	KA16ST621J	CARBON RESISTOR
R144	1	KA16ST514J	CARBON RESISTOR
R145	1	KA16ST224J	CARBON RESISTOR
R146	1	KA16ST222J	CARBON RESISTOR
R147	1	KA16ST472J	CARBON RESISTOR
R148	1	KA16ST514J	CARBON RESISTOR
R149	1	KA16ST394J	CARBON RESISTOR
R150	1	KA16ST334J	CARBON RESISTOR
R151	1	KA16ST303J	CARBON RESISTOR
R152	1	KA16ST102J	CARBON RESISTOR
R153,154	2	KA16ST333J	CARBON RESISTOR
R155,156	2	KA16ST103J	CARBON RESISTOR
R157,158	2	KA25ST181J	CARBON RESISTOR
R159	1	KA16ST912J	CARBON RESISTOR
R160	1	KA16ST632J	CARBON RESISTOR
R161,162	2	KA16ST102J	CARBON RESISTOR
SVR001,002	2	SVR-06T3B303	SEMI-VARIABLE RESISTOR
SVR051	1	SVR-06T3B104	SEMI-VARIABLE RESISTOR
SVR060	1	SVR-06T3B204	SEMI-VARIABLE RESISTOR
SVR101	1	SVR-06T3B103	SEMI-VARIABLE RESISTOR
SVR117	1	SVR-06T3B104	SEMI-VARIABLE RESISTOR
COILS			
L001	1	LAL03102K	INDUCTOR
T001	1	126044	MW ANT COIL
T002	1	141039	FM DET COIL
T003	1	140053	MW IFT
T004	1	135023	MW OSC COIL
T052,053	2	184013	FILTER BLOCK
MISCELLANEOUS			
F001,002	2	SFE10.7M21K-A	CERAMIC FILTER
F003	1	SFP450F	CERAMIC FILTER
F004	1	SFU450C4N	CERAMIC FILTER
F051	1	CS6456F11	CERAMIC FILTER
AT001	1	YKD31-G319	ANT. TERMINAL
CN302	1	PI25C-04M	MICRO PLUG
CN304	1	PI25C-08M	MICRO PLUG
CN307	1	171825-6	MICRO PLUG

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
EL001,002	2	M1698	GND LUG
FE001	1	FE407-A16	FM FRONTEND
TP001~004, 101	5	IMSA-1066-02A	MINI TERMINAL PLATE
10E 4	1	5E-T03-05	JUMP WIRE
10E10	34	E050	JUMP WIRE
10E11	33	E100	JUMP WIRE

FUNCTION & EQ P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
33E25	1	FEQ-826A	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
D501~510	10	GMA01	DIODE
D701~704	4	1SS176	DIODE
Q501~504	4	RN-1207	TRANSISTOR
Q505,506	2	RN-2207	TRANSISTOR
Q507,508, 651~656, 701~705	13	2SC2878-A,B	TRANSISTOR
Q706,707	2	RN-2207	TRANSISTOR
IC501,502	2	UPC4570HA	IC
IC503~508	6	NJM4558B	IC
IC509~512	4	NJM4565M	IC
IC513	1	TC9163N	IC
IC514	1	TC9164N	IC
IC515	1	TC9214P	IC
IC516	1	TC9153AP	IC
IC517	1	TC9215P	IC
IC518	1	TC40136P	IC
IC601~610, 651	11	UPC4570HA	IC
IC652	1	NJM4565SB	IC
IC653	1	NJ5216L	IC
IC654	1	TC9215P	IC
IC701~703	3	NJM4565SB	IC
IC704	1	TC9215P	IC
CAPACITORS			
C501,502	2	LL-16TW100M	LOW LEAK. ELECTROLYTIC CAP.
C503,504	2	HE40SJYB101K	CERAMIC CAPACITOR
C505~508	4	MY-50VU473J	MYLAR CAPACITOR
C509,510	2	NS-10TW221M	ELECTROLYTIC CAPACITOR
C511,512	2	HE40SJYB101K	CERAMIC CAPACITOR
C513,514	2	MY-50VU182J	MYLAR CAPACITOR
C515,516	2	MY-50VU562J	MYLAR CAPACITOR
C517,518	2	LL-16TW229M	LOW LEAK. ELECTROLYTIC CAP.
C519,520	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C521,522	2	HE40SJYB471K	CERAMIC CAPACITOR
C523,524	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C525,526	2	HE40SJYB471K	CERAMIC CAPACITOR
C527,528	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C529,530	2	HE40SJYB471K	CERAMIC CAPACITOR
C531,532	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C533,534	2	HE40SJYB471K	CERAMIC CAPACITOR
C535,536	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C537,538	2	HE40SJYB471K	CERAMIC CAPACITOR
C539,540	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C541,542	2	HE40SJYB471K	CERAMIC CAPACITOR
C543~546	4	MY-50VU104J	MYLAR CAPACITOR
C547~552	6	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C553	1	MY-50VU154J	MYLAR CAPACITOR
C554	1	NS-50TW3R3M	ELECTROLYTIC CAPACITOR
C555,556	2	MY-50VU164J	MYLAR CAPACITOR
C557	1	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C559,560	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C561,562	2	MY-50VU163J	MYLAR CAPACITOR
C563~566	4	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C567,568	2	NS-25TW220M	ELECTROLYTIC CAPACITOR
C569	1	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C571,572	2	NS-25TW220M	ELECTROLYTIC CAPACITOR
C573,574	2	HE40SJYB101K	CERAMIC CAPACITOR
C575~580	6	NS-25TW100M	ELECTROLYTIC CAPACITOR
C581	1	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C582	1	HE40SJYB471K	CERAMIC CAPACITOR
C583,584	2	HC10SJZF473Z	CERAMIC CAPACITOR
C585	1	HE40SJYB471K	CERAMIC CAPACITOR
C651,652	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C653,654	2	HE50SJSL101K	CERAMIC CAPACITOR
C655,656	2	NS-25TW220M	ELECTROLYTIC CAPACITOR
C657,658	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C659,660	2	MY-50VU332J	MYLAR CAPACITOR
C671,672	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C673,674	2	NS-25TW470M	ELECTROLYTIC CAPACITOR
C675,676	2	MY-50VU223J	MYLAR CAPACITOR
C701,702	2	MY-50VU332J	MYLAR CAPACITOR
C703,704	2	MY-50VU473J	MYLAR CAPACITOR
C705	1	MY-50VU823J	MYLAR CAPACITOR
C706	1	MY-50VU272J	MYLAR CAPACITOR
C707	1	MY-50VU562J	MYLAR CAPACITOR
C708	1	MY-50VU122J	MYLAR CAPACITOR
C710	1	HE40SJYB681K	CERAMIC CAPACITOR
C712	1	MY-50VU122J	MYLAR CAPACITOR
C713	1	MY-50VU562J	MYLAR CAPACITOR
C714~729	16	MY-50VU102J	MYLAR CAPACITOR
C730,731	2	LL-25TW4R7M	LOW LEAK. ELECTROLYTIC CAP.
C732	1	MY-50VU683J	MYLAR CAPACITOR
C739,740	2	HE40SJY9221K	CERAMIC CAPACITOR
C742	1	EQ4VLH124JZ	METALLIZED FILM CAPACITOR
C833~836	4	MY-50VU182J	MYLAR CAPACITOR
C837,838	2	MY-50VU222J	MYLAR CAPACITOR
C841,842	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C843,844	2	HE50SJSL101K	CERAMIC CAPACITOR
C845,846	2	NS-25TW220M	ELECTROLYTIC CAPACITOR
C847~852	6	NS-25TW4R7M	ELECTROLYTIC CAPACITOR

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
RESISTORS			
R501,502	2	KA16ST473J	CARBON RESISTOR
R503,504	2	KA16ST751J	CARBON RESISTOR
R505,506	2	KA16ST393J	CARBON RESISTOR
R507,508	2	KA16ST514J	CARBON RESISTOR
R509,510	2	KA16ST391J	CARBON RESISTOR
R511,512	2	KA16ST513J	CARBON RESISTOR
R513,514	2	KA16ST104J	CARBON RESISTOR
R515,516	2	KA16ST334J	CARBON RESISTOR
R517,518	2	KA16ST223J	CARBON RESISTOR
R519,520	2	KA16ST220J	CARBON RESISTOR
R521~524	4	KA16ST104J	CARBON RESISTOR
R525,526	2	KA16ST561J	CARBON RESISTOR
R527~530	4	KA16ST104J	CARBON RESISTOR
R531,532	2	KA16ST561J	CARBON RESISTOR
R533~536	4	KA16ST104J	CARBON RESISTOR
R537,538	2	KA16ST561J	CARBON RESISTOR
R539~542	4	KA16ST104J	CARBON RESISTOR
R543,544	2	KA16ST561J	CARBON RESISTOR
R545~548	4	KA16ST104J	CARBON RESISTOR
R549,550	2	KA16ST561J	CARBON RESISTOR
R551~556	6	KA16ST104J	CARBON RESISTOR
R557,558	2	KA16ST471J	CARBON RESISTOR
R559~562	4	KA16ST224J	CARBON RESISTOR
R563,564	2	KA16ST471J	CARBON RESISTOR
R565~568	4	KA16ST104J	CARBON RESISTOR
R569	1	KA16ST474J	CARBON RESISTOR
R570	1	KA16ST473J	CARBON RESISTOR
R571	1	KA16ST104J	CARBON RESISTOR
R572	1	KA16ST223J	CARBON RESISTOR
R573~576	4	KA16ST104J	CARBON RESISTOR
R577~580	4	KA16ST105J	CARBON RESISTOR
R581	1	KA16ST104J	CARBON RESISTOR
R582	1	KA16ST331J	CARBON RESISTOR
R583	1	KA16ST271J	CARBON RESISTOR
R584	1	KA16ST273J	CARBON RESISTOR
R585,586	2	KA16ST471J	CARBON RESISTOR
R587,588	2	KA16ST473J	CARBON RESISTOR
R589,590	2	KA16ST224J	CARBON RESISTOR
R591	1	KA16ST105J	CARBON RESISTOR
R593~600	8	KA16ST102J	CARBON RESISTOR
R601~602	2	KA16ST103J	CARBON RESISTOR
R603,604	2	KA16ST102J	CARBON RESISTOR
R605,606	2	KA16ST471J	CARBON RESISTOR
R607,608	2	KA16ST473J	CARBON RESISTOR
R609,610	2	KA16ST122J	CARBON RESISTOR
R611,612	2	KA16ST183J	CARBON RESISTOR
R613,614	2	KA16ST153J	CARBON RESISTOR
R615	1	KA16ST104J	CARBON RESISTOR
R617,618	2	KA16ST271J	CARBON RESISTOR
R619,620	2	KA16ST103J	CARBON RESISTOR
R621,622	2	KA16ST271J	CARBON RESISTOR
R624,625	2	KA16ST561J	CARBON RESISTOR
R651,652	2	KA16ST471J	CARBON RESISTOR
R653,654	2	KA16ST224J	CARBON RESISTOR
R655,656	2	KA16ST152J	CARBON RESISTOR
R657,658	2	KA16ST123J	CARBON RESISTOR
R659,660	2	KA16ST153J	CARBON RESISTOR
R661,662	2	KA16ST561J	CARBON RESISTOR
R663,664	2	KA16ST472J	CARBON RESISTOR
R665,666	2	KA16ST680J	CARBON RESISTOR
R667,668	2	KA16ST103J	CARBON RESISTOR
R669,670	2	KA16ST104J	CARBON RESISTOR
R671,672	2	KA16ST103J	CARBON RESISTOR
R673,674	2	KA16ST473J	CARBON RESISTOR
R675,676	2	KA16ST471J	CARBON RESISTOR
R677,678	2	KA16ST153J	CARBON RESISTOR
R679,680	2	KA16ST102J	CARBON RESISTOR
R681,682	2	KA16ST103J	CARBON RESISTOR
R683,684	2	KA16ST224J	CARBON RESISTOR
R685,686	2	KA16ST151J	CARBON RESISTOR
R687,688	2	KA16ST104J	CARBON RESISTOR
R689,690	2	KA16ST224J	CARBON RESISTOR
R691,692	2	KA16ST102J	CARBON RESISTOR
R701,702	2	KA16ST203J	CARBON RESISTOR
R703,704	2	KA16ST362J	CARBON RESISTOR
R705,706	2	KA16ST332J	CARBON RESISTOR
R707,708	2	KA16ST392J	CARBON RESISTOR
R709,710	2	KA16ST203J	CARBON RESISTOR
R711,712	2	KA16ST822J	CARBON RESISTOR
R713	1	KA16ST392J	CARBON RESISTOR
R714	1	KA16ST102J	CARBON RESISTOR
R715	1	KA16ST392J	CARBON RESISTOR
R716	1	KA16ST912J	CARBON RESISTOR
R717	1	KA16ST183J	CARBON RESISTOR
R718	1	KA16ST153J	CARBON RESISTOR
R719	1	KA16ST362J	CARBON RESISTOR
R720	1	KA16ST203J	CARBON RESISTOR
R721	1	KA16ST392J	CARBON RESISTOR
R722	1	KA16ST203J	CARBON RESISTOR
R723	1	KA16ST392J	CARBON RESISTOR
R724	1	KA16ST112J	CARBON RESISTOR
R725,727, 728	3	KA16ST392J	CARBON RESISTOR
R729	1	KA16ST302J	CARBON RESISTOR
R731	1	KA16ST392J	CARBON RESISTOR
R732	1	KA16ST273J	CARBON RESISTOR
R733	1	KA16ST392J	CARBON RESISTOR
R735	1	KA16ST302J	CARBON RESISTOR
R736	1	KA16ST153J	CARBON RESISTOR
R737	1	KA16ST682J	CARBON RESISTOR
R738	1	KA16ST392J	CARBON RESISTOR
R739	1	KA16ST162J	CARBON RESISTOR
R741	1	KA16ST273J	CARBON RESISTOR
R742	1	KA16ST392J	CARBON RESISTOR
R743,744	2	KA16ST473J	CARBON RESISTOR
R745	1	KA16ST152J	CARBON RESISTOR
R746	1	KA16ST682J	CARBON RESISTOR
R751	1	KA16ST203J	CARBON RESISTOR
R752	1	KA16ST361J	CARBON RESISTOR
R753	1	KA16ST512J	CARBON RESISTOR
R754	1	KA16ST752J	CARBON RESISTOR
R755,756	2	KA16ST203J	CARBON RESISTOR

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
R757	1	KA16ST512J	CARBON RESISTOR
R758,759	2	KA16ST752J	CARBON RESISTOR
R760	1	KA16ST122J	CARBON RESISTOR
R761	1	KA16ST752J	CARBON RESISTOR
R762	1	KA16ST103J	CARBON RESISTOR
R763	1	KA16ST752J	CARBON RESISTOR
R764,765	2	KA16ST103J	CARBON RESISTOR
R766	1	KA16ST752J	CARBON RESISTOR
R767	1	KA16ST103J	CARBON RESISTOR
R768	1	KA16ST203J	CARBON RESISTOR
R769	1	KA16ST361J	CARBON RESISTOR
R770	1	KA16ST512J	CARBON RESISTOR
R771	1	KA16ST752J	CARBON RESISTOR
R772	1	KA16ST361J	CARBON RESISTOR
R773,774	2	KA16ST122J	CARBON RESISTOR
R775,776, 773	3	KA16ST752J	CARBON RESISTOR
R779	1	KA16ST122J	CARBON RESISTOR
R780	1	KA16ST512J	CARBON RESISTOR
R781	1	KA16ST361J	CARBON RESISTOR
R782	1	KA16ST752J	CARBON RESISTOR
R783,784	2	KA16ST203J	CARBON RESISTOR
R785	1	KA16ST512J	CARBON RESISTOR
R786,787	2	KA16ST122J	CARBON RESISTOR
R788	1	KA16ST512J	CARBON RESISTOR
R789	1	KA16ST752J	CARBON RESISTOR
R790,791	2	KA16ST301J	CARBON RESISTOR
R792	1	KA16ST752J	CARBON RESISTOR
R793	1	KA16ST122J	CARBON RESISTOR
R794	1	KA16ST361J	CARBON RESISTOR
R795~799	5	KA16ST752J	CARBON RESISTOR
R800,801	2	KA16ST512J	CARBON RESISTOR
R802,803	2	KA16ST203J	CARBON RESISTOR
R804	1	KA16ST122J	CARBON RESISTOR
R805	1	KA16ST361J	CARBON RESISTOR
R831	1	KA16ST102J	CARBON RESISTOR
R833~836	4	KA16ST303J	CARBON RESISTOR
R837,838	2	KA16ST133J	CARBON RESISTOR
R839,840	2	KA16ST153J	CARBON RESISTOR
R841,842	2	KA16ST102J	CARBON RESISTOR
R843,844	2	KA16ST511J	CARBON RESISTOR
R845,846	2	KA16ST561J	CARBON RESISTOR
R851,852	2	KA16ST471J	CARBON RESISTOR
R853,854	2	KA16ST224J	CARBON RESISTOR
R855,856	2	KA16ST223J	CARBON RESISTOR
R857,858	2	KA16ST202J	CARBON RESISTOR
R859,860	2	KA16ST153J	CARBON RESISTOR
R861,862	2	KA16ST561J	CARBON RESISTOR
R863,864	2	KA16ST103J	CARBON RESISTOR
R865,866	2	KA16ST471J	CARBON RESISTOR
R867,868	2	KA16ST104J	CARBON RESISTOR
R869,870	2	KA16ST153J	CARBON RESISTOR
R871~874	4	KA16ST102J	CARBON RESISTOR
R875	1	KA16ST471J	CARBON RESISTOR
R876	1	KA16ST104J	CARBON RESISTOR
R877,878	2	KA16ST103J	CARBON RESISTOR
R879	1	KA16ST153J	CARBON RESISTOR
R880,881	2	KA16ST102J	CARBON RESISTOR
R882~885	4	KA16ST105J	CARBON RESISTOR
R886	1	KA16ST101J	CARBON RESISTOR
R887	1	KA16ST105J	CARBON RESISTOR
R888,889	2	KA16ST680J	CARBON RESISTOR
MISCELLANEOUS			
CN501	1	MZ03-809	MICRO SOCKET ASS'Y
CN502	1	MZ03-812	MICRO SOCKET ASS'Y
CN505	1	MZ09-816	MICRO SOCKET ASS'Y
CN506	1	MZ06-815	MICRO SOCKET ASS'Y
CN507	1	MZ06-832	MICRO SOCKET ASS'Y
CN701	1	MZ03-811A	MICRO SOCKET ASS'Y
CN801	1	MZ03-829	MICRO SOCKET ASS'Y
CN802	1	MZ03-810A	MICRO SOCKET ASS'Y
JW501	1	MZ03-908	MICRO SOCKET ASS'Y
MP001	1	173981-5	MICRO PLUG
MP002,004	2	173981-3	MICRO PLUG
MP601	1	MZ03-814	MICRO SOCKET ASS'Y
MP604	1	173981-4	MICRO PLUG
RJ501~505	5	YKC21-3051	RCA JACK 6P
RJ506	1	YKC21-3048	RCA JACK 1P
TP501,502	2	IMSA106802Z211	MINI TERMINAL PLATE
30E24	85	E050	JUMP WIRE
30E26	10	E075	JUMP WIRE
30E27	100	E100	JUMP WIRE
30E28	10	E125	JUMP WIRE
30E29	17	E150	JUMP WIRE
30E30	9	E175	JUMP WIRE

AUDIO SWITCH P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
33E26	1	ASW-826A	PRINTED CIRCUIT BOARD
CAPACITORS			
C413,414	2	MY-50VU104J	MYLAR CAPACITOR
RESISTORS			
R453,454	2	KA16ST133J	CARBON RESISTOR
VR402	1	V8609-154MN1K4	ROTARY POTENTIOMETER
SWITCHES			
SW410	1	SW-1201289	PUSH SWITCH
SW411	1	SW-1401288	PUSH SWITCH

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
MISCELLANEOUS			
CN403	1	MZ05-818A	MICRO SOCKET ASS'Y
CN404	1	MZ03-817	MICRO SOCKET ASS'Y
CN421	1	MZ03-813	MICRO SOCKET ASS'Y
CN422	1	MZ05-831	MICRO SOCKET ASS'Y
30E22	3	E100	JUMP WIRE

HEADPHONE P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
33E25	1	HP-826A	PRINTED CIRCUIT BOARD
CAPACITORS			
C951	1	HE125JYF473Z	CERAMIC CAPACITOR
MISCELLANEOUS			
CN604	1	MZ04-821A	MICRO SOCKET ASS'Y
HJ600	1	YK821-5008	MICK JACK
46E29	2	U9-#138025	UL TYPE TUBE
46E30	1	2AE-05	LUG

POWER SWITCH P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
33E27	1	PSW-828A	PRINTED CIRCUIT BOARD
SWITCHES			
SW801	1	SDA-12445	TACT SWITCH
MISCELLANEOUS			
CN800	1	MZ02-824	MICRO SOCKET ASS'Y

VOLUME LED P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
33E29	1	VLD-826A	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
D800	1	SPR-54MVWF	LED
MISCELLANEOUS			
CN454	1	MZ03-820	MICRO SOCKET ASS'Y

POWER SUPPLY P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
44E 4	1	PS-829A	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
D900	1	1S4842	DIODE
D901,902	2	1N4002	DIODE
D903	1	ZD50-057	ZENER DIODE,1/2W,5.7V
D904	1	1N4002	DIODE
D905	1	ZD50-057	ZENER DIODE,1/2W,5.7V
D906	1	ZD50-062	ZENER DIODE,1/2W,6.2V
D907	1	1N4002	DIODE
D908	1	1S4842	DIODE
D909	1	1N4002	DIODE
D910	1	ZD50-040	ZENER DIODE,1/2W,4V
D911	1	ZD50-215	ZENER DIODE,1/2W,21.5V
D912,913	2	1N4002	DIODE
D914	1	1SS176	DIODE
Q901	1	2SC1815-Y,GR	TRANSISTOR
Q902	1	2SA1015-Y,GR	TRANSISTOR
Q903	1	2SB1274-R,S	TRANSISTOR
Q904	1	2SD1913-R,S	TRANSISTOR
Q905	1	2SD400-E,F	TRANSISTOR
IC901,902	2	NJM78M12A	IC
IC903	1	M5230L	IC
IC904	1	NJM78M05A	IC
CAPACITORS			
C900,901	2	YE103	METALLIZED FILM CAPACITOR
C902	1	NS-16TW470M	ELECTROLYTIC CAPACITOR
C903	1	NS-16TW221M	ELECTROLYTIC CAPACITOR
C904,905	2	NS-16TW470M	ELECTROLYTIC CAPACITOR
C906	1	NS-16TW101M	ELECTROLYTIC CAPACITOR
C907	1	NS-50TW2R2M	ELECTROLYTIC CAPACITOR
C908	1	NS-25TW470M	ELECTROLYTIC CAPACITOR
C909	1	NS-50TW220M	ELECTROLYTIC CAPACITOR
C910	1	NS-50TW100M	ELECTROLYTIC CAPACITOR
C911	1	NS-16TW100M	ELECTROLYTIC CAPACITOR
C912	1	NS-35TW222M-KF	ELECTROLYTIC CAPACITOR!
C913,914	2	NS-50TW2R2M	ELECTROLYTIC CAPACITOR
C915,916	2	NS-35TW222M-KF	ELECTROLYTIC CAPACITOR!
C917	1	NS-50TW2R2M	ELECTROLYTIC CAPACITOR
C918	1	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C919,920	2	NS-16TW470M	ELECTROLYTIC CAPACITOR
C921	1	HE40SJSL100K	CERAMIC CAPACITOR
C930	1	NS-16TW470M	ELECTROLYTIC CAPACITOR

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
RESISTORS			
R900	1	KA50XT335J	CARBON RESISTOR
R901	1	KA16ST102J	CARBON RESISTOR
R902	1	KA16ST103J	CARBON RESISTOR
R904	1	KA16ST391J	CARBON RESISTOR
R905	1	KA16ST102J	CARBON RESISTOR
R906	1	KA16ST223J	CARBON RESISTOR
R907	1	KA16ST182J	CARBON RESISTOR
R910	1	KA16ST151J	CARBON RESISTOR
R911	1	KA16ST561J	CARBON RESISTOR
R912	1	MF16ST332F	METAL FILM RESISTOR
R913	1	MF16ST243F	METAL FILM RESISTOR
R914,915	2	KA16ST153J	CARBON RESISTOR
R916	1	KA16ST561J	CARBON RESISTOR
R917	1	KA16ST151J	CARBON RESISTOR
R915	1	SA-1WT68GJ-LP	METAL OXIDE RESISTOR
R919,920	2	SA-1WT191J-LP	METAL OXIDE RESISTOR
MISCELLANEOUS			
H901	1	OSH-1625-MP	HEAT SINK
H902~904	3	OSH-1640-MP	HEAT SINK
H905	1	OSH-1625-MP	HEAT SINK
AC901,902	2	59BS4795	GND LUG
CN902	1	MZ62-825	MICRO SOCKET ASS'Y
CN905	1	MZ09-826	MICRO SOCKET ASS'Y
EL901	1	M1698	GND LUG
EL902	1	59BS4795	GND LUG
FU900	1	FU-625014-SM	FUSE
MP410	1	173981-8	MICRO PLUG
MP506	1	173981-6	MICRO PLUG
RL900	1	OMIT-SS-112LM	RELAY
43E28	13	E050	JUMP WIRE
43E29	33	E100	JUMP WIRE
44E13	2	CNT41-0013	FUSE HOLDER
AC0900,901	2	M7037	AC OUTLET

VIDEO P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
44E 5	1	VDN-829A	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
D201,202	2	1SS176	DIODE
IC203,204, 208	3	NJM4565SB	IC
IC211	1	TC4011UBP	IC
IC212	1	TC4011BP	IC
IC213	1	TC4013BP	IC
IC215	1	TC4052BP	IC
IC220	1	LA2730	IC
QV001	1	RN-1207	TRANSISTOR
QV002	1	2SC1815-Y,GR	TRANSISTOR
QV003,004	2	RN-1207	TRANSISTOR
QV005~010	6	2SC1815-Y,GR	TRANSISTOR
ICV001	1	TC4066BP	IC
CAPACITORS			
C206	1	NP-50TW1R0M	ELECTROLYTIC CAPACITOR
C207	1	NS-16TW100M	ELECTROLYTIC CAPACITOR
C208	1	NS-50TW3R3M	ELECTROLYTIC CAPACITOR
C209	1	NS-16TW100M	ELECTROLYTIC CAPACITOR
C210	1	NP-50TW2R2M	ELECTROLYTIC CAPACITOR
C211	1	NS-16TW100M	ELECTROLYTIC CAPACITOR
C212	1	HE40SJSL470K	CERAMIC CAPACITOR
C213,214, 216	3	MY-50VU103J	MYLAR CAPACITOR
C217	1	HE40SJSL470K	CERAMIC CAPACITOR
C218,219	2	MY-50VU104J	MYLAR CAPACITOR
C220,221	2	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C222~225, 285	5	NS-16TW100M	ELECTROLYTIC CAPACITOR
C286	1	MY-50VU182J	MYLAR CAPACITOR
C289	1	NS-16TW100M	ELECTROLYTIC CAPACITOR
C295	1	LL-50TWR33M	LOW LEAK. ELECTROLYTIC CAP.
C296	1	LL-50TWR10M	LOW LEAK. ELECTROLYTIC CAP.
C297	1	MY-50VU333J	MYLAR CAPACITOR
C298	1	NS-16TW101M	ELECTROLYTIC CAPACITOR
C300	1	MY-50VU273J	MYLAR CAPACITOR
C301	1	MY-50VU472J	MYLAR CAPACITOR
C302	1	NS-16TW220M	ELECTROLYTIC CAPACITOR
C303	1	NS-16TW101M	ELECTROLYTIC CAPACITOR
C304	1	MY-50VU822J	MYLAR CAPACITOR
C305~307	3	NS-16TW100M	ELECTROLYTIC CAPACITOR
C308,310	2	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
CV001~004	4	NS-16TW101M	ELECTROLYTIC CAPACITOR
CV005	1	NS-16TW331M	ELECTROLYTIC CAPACITOR
CV005	1	HE40SJSL470K	CERAMIC CAPACITOR
CV006	1	NS-16TW101M	ELECTROLYTIC CAPACITOR
CV007	1	NS-16TW331M	ELECTROLYTIC CAPACITOR
CV008	1	NS-16TW101M	ELECTROLYTIC CAPACITOR
CV009	1	HE40SJSL470K	CERAMIC CAPACITOR
CV010	1	NS-16TW102M-KF	ELECTROLYTIC CAPACITOR!
CV011	1	HE99SJYF223Z	CERAMIC CAPACITOR
CV012	1	NS-16TW101M	ELECTROLYTIC CAPACITOR

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
RESISTORS			
R241	1	KA16ST132J	CARBON RESISTOR
R242	1	KA16ST104J	CARBON RESISTOR
R244	1	KA16ST105J	CARBON RESISTOR
R245	1	KA16ST102J	CARBON RESISTOR
R246	1	KA16ST104J	CARBON RESISTOR
R247	1	KA16ST473J	CARBON RESISTOR
R248	1	KA16ST221J	CARBON RESISTOR
R249,250	2	KA16ST473J	CARBON RESISTOR
R251	1	KA16ST153J	CARBON RESISTOR
R252	1	KA16ST622J	CARBON RESISTOR
R253~255	3	KA16ST104J	CARBON RESISTOR
R256	1	KA16ST101J	CARBON RESISTOR
R257,258	2	KA16ST474J	CARBON RESISTOR
R259~262	4	KA16ST104J	CARBON RESISTOR
R263	1	KA16ST101J	CARBON RESISTOR
R264~266	3	KA16ST104J	CARBON RESISTOR
R288	1	KA16ST274J	CARBON RESISTOR
R289	1	KA16ST622J	CARBON RESISTOR
R290	1	KA16ST473J	CARBON RESISTOR
R291	1	KA16ST332J	CARBON RESISTOR
R292	1	KA16ST123J	CARBON RESISTOR
R293	1	KA16ST181J	CARBON RESISTOR
R294	1	KA16ST153J	CARBON RESISTOR
R295	1	KA16ST103J	CARBON RESISTOR
R296	1	KA16ST273J	CARBON RESISTOR
R297	1	KA16ST471J	CARBON RESISTOR
R298,299	2	KA16ST473J	CARBON RESISTOR
R300	1	KA16ST274J	CARBON RESISTOR
RV001	1	KA16ST473J	CARBON RESISTOR
RV002	1	KA16ST104J	CARBON RESISTOR
RV003	1	KA16ST100J	CARBON RESISTOR
RV004	1	KA16ST750J	CARBON RESISTOR
RV005,006	2	KA16ST104J	CARBON RESISTOR
RV007	1	KA16ST750J	CARBON RESISTOR
RV008,009	2	KA16ST104J	CARBON RESISTOR
RV010	1	KA16ST472J	CARBON RESISTOR
RV011	1	KA16ST104J	CARBON RESISTOR
RV012	1	KA16ST103J	CARBON RESISTOR
RV013	1	KA25ST391J	CARBON RESISTOR
RV014	1	KA16ST680J	CARBON RESISTOR
RV015	1	KA16ST223J	CARBON RESISTOR
RV016	1	KA16ST102J	CARBON RESISTOR
RV017	1	KA16ST471J	CARBON RESISTOR
RV018	1	KA16ST472J	CARBON RESISTOR
RV019,020	2	KA16ST471J	CARBON RESISTOR
RV021	1	KA16ST472J	CARBON RESISTOR
RV022	1	KA16ST223J	CARBON RESISTOR
RV023	1	KA16ST103J	CARBON RESISTOR
RV024	1	KA25ST391J	CARBON RESISTOR
RV025	1	KA16ST680J	CARBON RESISTOR
RV026	1	KA16ST472J	CARBON RESISTOR
RV027	1	KA16ST223J	CARBON RESISTOR
RV028	1	KA16ST102J	CARBON RESISTOR
RV029~031	3	KA16ST471J	CARBON RESISTOR
RV032	1	KA16ST223J	CARBON RESISTOR
RV033	1	KA16ST472J	CARBON RESISTOR
SVR201,202	2	SVR-06T36503	SEMI-VARIABLE RESISTOR
MISCELLANEOUS			
CN300	1	52007-0910	CONNECTOR
TP203	1	171825-2	MICRO PLUG
43E14	6	E050	JUMP WIRE
43E15	1	E075	JUMP WIRE
43E17	1	E100	JUMP WIRE
CNV001	1	171825-5	MICRO PLUG
ELV001	1	M1698	GND LUG
MJV001	1	YK321-5130	MIC JACK
RJV001	1	T6226-8AAA	RCA JACK 4P

TONE CONTROL P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
44E 6	1	TDN-829A	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
ICT041	1	NJM4565SB	IC
CAPACITORS			
CT041	1	ECQV1H334JZ	METALLIZED FILM CAPACITOR
CT042,043	2	MY-50VU123J	MYLAR CAPACITOR
CT044	1	MY-50VU823J	MYLAR CAPACITOR
CT045,046	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
CT047	1	NS-25TW220M	ELECTROLYTIC CAPACITOR
CT048	1	HE40SJYB101K	CERAMIC CAPACITOR
CT049,050	2	ECQV1H334JZ	METALLIZED FILM CAPACITOR
CT051,052	2	MY-50VU123J	MYLAR CAPACITOR
CT053	1	MY-50VU823J	MYLAR CAPACITOR
CT054	1	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
CT055	1	MY-50VU562J	MYLAR CAPACITOR
CT056	1	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
CT057	1	NS-25TW220M	ELECTROLYTIC CAPACITOR
CT058	1	HE40SJYB101K	CERAMIC CAPACITOR
CT059	1	ECQV1H334JZ	METALLIZED FILM CAPACITOR
CT060,061	2	HE70SJYF103Z	CERAMIC CAPACITOR
CT062	1	MY-50VU562J	MYLAR CAPACITOR

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
RESISTORS			
RT041	1	KA16ST562J	CARBON RESISTOR
RT042	1	KA16ST182J	CARBON RESISTOR
RT043	1	KA16ST152J	CARBON RESISTOR
RT044	1	KA16ST562J	CARBON RESISTOR
RT045	1	KA16ST682J	CARBON RESISTOR
RT046	1	KA16ST222J	CARBON RESISTOR
RT047	1	KA16ST562J	CARBON RESISTOR
RT048~051	4	KA16ST152J	CARBON RESISTOR
RT052	1	KA16ST682J	CARBON RESISTOR
RT053	1	KA16ST474J	CARBON RESISTOR
RT054	1	KA16ST561J	CARBON RESISTOR
RT055	1	KA16ST274J	CARBON RESISTOR
RT056	1	KA16ST562J	CARBON RESISTOR
RT057,058	2	KA16ST153J	CARBON RESISTOR
RT059	1	KA16ST562J	CARBON RESISTOR
RT060	1	KA16ST182J	CARBON RESISTOR
RT061	1	KA16ST152J	CARBON RESISTOR
RT062	1	KA16ST562J	CARBON RESISTOR
RT063,064	2	KA16ST152J	CARBON RESISTOR
RT065	1	KA16ST562J	CARBON RESISTOR
RT066	1	KA16ST682J	CARBON RESISTOR
RT067,068	2	KA16ST152J	CARBON RESISTOR
RT069	1	KA16ST682J	CARBON RESISTOR
RT070	1	KA16ST222J	CARBON RESISTOR
RT071	1	KA16ST474J	CARBON RESISTOR
RT072	1	KA16ST274J	CARBON RESISTOR
RT073	1	KA16ST561J	CARBON RESISTOR
RT074	1	KA16ST562J	CARBON RESISTOR
VRT041~043	3	V8T09-203B21K4	ROTARY POTENTIOMETER
MISCELLANEOUS			
45E20	12	E050	JUMP WIRE
45E21	13	E100	JUMP WIRE
45E23	4	E125	JUMP WIRE
45E24	2	E150	JUMP WIRE
CNT001	1	MZ05-827	MICRO SOCKET ASS'Y
CNT002	1	MZ03-828	MICRO SOCKET ASS'Y

DISPLAY & DTS P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
36E 3	1	FL-8286	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
D401	1	SLR-37VR3F	LED
D402	1	SLR-37MG3F	LED
D403~415	13	SLR-37VR3F	LED
D416	1	SLR-15VR3F	LED
D417~426	10	SLR-55DU3F	LED
D427~429	3	SLR-55MG3F	LED
D444~452, 455	10	GMA01	DIODE
Q401~405	5	2SC3330-S,T	TRANSISTOR
IC401	1	TC9303AN-014	IC
IC402,403	2	L81433N	IC
IC404	1	L81423N	IC
CAPACITORS			
C401,402	2	HE50SJCH270J	CERAMIC CAPACITOR
C403	1	NS-16TW100M	ELECTROLYTIC CAPACITOR
C404	1	NS6R3TW471M	ELECTROLYTIC CAPACITOR
C406	1	NS-16TW100M	ELECTROLYTIC CAPACITOR
C407~409	3	NS-16TW101M	ELECTROLYTIC CAPACITOR
C410,411	2	NS-16TW100M	ELECTROLYTIC CAPACITOR
C412	1	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
RESISTORS			
R401	1	KA16ST153J	CARBON RESISTOR
R402	1	KA16ST104J	CARBON RESISTOR
R403	1	KA16ST622J	CARBON RESISTOR
R404	1	KA16ST123J	CARBON RESISTOR
R405	1	KA16ST103J	CARBON RESISTOR
R406	1	KA16ST473J	CARBON RESISTOR
R407	1	KA16ST393J	CARBON RESISTOR
R408	1	KA16ST681J	CARBON RESISTOR
R409	1	KA16ST391J	CARBON RESISTOR
R410,411	2	KA16ST681J	CARBON RESISTOR
R412	1	KA16ST393J	CARBON RESISTOR
R413	1	KA16ST822J	CARBON RESISTOR
R414	1	KA16ST393J	CARBON RESISTOR
R420~427	8	KA16ST681J	CARBON RESISTOR
R429	1	KA16ST102J	CARBON RESISTOR
R430,431	2	KA16ST105J	CARBON RESISTOR
R432,433	2	KA16ST473J	CARBON RESISTOR
R443~451	9	KA16ST102J	CARBON RESISTOR
RA401	1	RA-SP-C5473J	BLOCK RESISTOR
SWITCHES			
SW401~403, 440~458	22	SOA-124HS	TACT SWITCH
MISCELLANEOUS			
X401	1	HC18/U7.200MHZ	QUARTZ OSCILLATOR UNIT
CN302	1	MZ04-803	MICRO SOCKET ASS'Y
CN304	1	MZ08-801	MICRO SOCKET ASS'Y
CN405	1	MZ02-807	MICRO SOCKET ASS'Y
CN406	1	MZ02-806	MICRO SOCKET ASS'Y
CN407	1	MZ03-805	MICRO SOCKET ASS'Y
CN408	1	MZ06-800	MICRO SOCKET ASS'Y
CN409	1	MZ07-799	MICRO SOCKET ASS'Y
CN410	1	MZ08-804	MICRO SOCKET ASS'Y
CN413	1	MZ05-802	MICRO SOCKET ASS'Y

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
FL401	1	FG710F1	DISPLAY
RV401	1	SBX1483-11	REMOTE SIGNAL RECEIVING UNIT
35E18	46	E050	JUMP WIRE
35E19	1	E075	JUMP WIRE
35E20	3	E100	JUMP WIRE
35E21	4	E150	JUMP WIRE

MICON SURROUND P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
26E23	1	MS-827b	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
D200,203~ 232,234~ 237,240, 245	37	1SS176	DIODE
Q201~204	4	RN-1207	TRANSISTOR
Q205	1	2SK363-BL	TRANSISTOR
Q206,207	2	RN-2207	TRANSISTOR
Q208,209	2	RN-1207	TRANSISTOR
Q210,211	2	RN-2207	TRANSISTOR
Q212,213	2	RN-1207	TRANSISTOR
Q214~217	4	RN-2207	TRANSISTOR
Q219~221	3	RN-1207	TRANSISTOR
Q222	1	RN-2207	TRANSISTOR
Q223	1	RN-1207	TRANSISTOR
Q224	1	RN-2207	TRANSISTOR
Q225	1	RN-1207	TRANSISTOR
Q227	1	RN-1211	TRANSISTOR
Q228~230	3	RN-2207	TRANSISTOR
Q231~236	6	RN-1207	TRANSISTOR
Q237	1	RN-2207	TRANSISTOR
Q238	1	RN-1207	TRANSISTOR
Q239,240	2	RN-2207	TRANSISTOR
Q241	1	RN-1207	TRANSISTOR
Q242	1	RN-1211	TRANSISTOR
Q243	1	2SA1015-Y,GR	TRANSISTOR
IC201,202, 205~207, 209	6	NJM4565SB	IC
IC214	1	TC9215P	IC
IC216	1	LA2770	IC
IC217	1	YM3423	IC
IC218	1	TC9214P	IC
IC219	1	TC9215P	IC
IC221	1	TC9214P	IC
IC222	1	NJM4565SB	IC
IC223	1	NJM072BS	IC
IC224,225	2	NJM4565SB	IC
IC226,227	2	TC9153AP	IC
IC228,229	2	NJM4565SB	IC
IC230	1	TC4013BP	IC
IC231	1	M51523AL	IC
IC232	1	LC6554H-4298	IC
IC233,234	2	SA6250	IC
CAPACITORS			
C201~205	5	S7-25TW4R7M	ELECTROLYTIC CAPACITOR
C226	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C227	1	MY-50VU183J	MYLAR CAPACITOR
C228	1	MY-50VU683J	MYLAR CAPACITOR
C229	1	MY-50VU392J	MYLAR CAPACITOR
C230,231	2	MY-50VU104J	MYLAR CAPACITOR
C232,233	2	S7-16TW100M	ELECTROLYTIC CAPACITOR
C234,235	2	MY-50VU104J	MYLAR CAPACITOR
C236,237	2	ECQV1H154JZ	METALLIZED FILM CAPACITOR
C238,239	2	SL-35TW4R7M-RT	ELECTROLYTIC CAPACITOR
C240	1	MY-50VU682J	MYLAR CAPACITOR
C241	1	SL-50TWR22M-RT	ELECTROLYTIC CAPACITOR
C242	1	SL-35TW4R7M-RT	ELECTROLYTIC CAPACITOR
C243	1	S7-50TWR22M-RT	ELECTROLYTIC CAPACITOR
C244	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C245,246	2	ECQV1H334JZ	METALLIZED FILM CAPACITOR
C247	1	HE40SJYB681K	CERAMIC CAPACITOR
C248	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C249	1	SL-35TW4R7M-RT	ELECTROLYTIC CAPACITOR
C250	1	SL-50TWR22M-RT	ELECTROLYTIC CAPACITOR
C251	1	MY-50VU682J	MYLAR CAPACITOR
C252	1	S7-25TW4R7M	ELECTROLYTIC CAPACITOR
C253	1	SL-35TW4R7M-RT	ELECTROLYTIC CAPACITOR
C254	1	ECQV1H224JZ	METALLIZED FILM CAPACITOR
C255	1	S7-16TW470M	ELECTROLYTIC CAPACITOR
C256,257	2	S7-16TW100M	ELECTROLYTIC CAPACITOR
C258	1	S7-16TW47CM	ELECTROLYTIC CAPACITOR
C259	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C260	1	ECQV1H474JZ	METALLIZED FILM CAPACITOR
C261,262	2	S7-16TW100M	ELECTROLYTIC CAPACITOR
C263	1	MY-50VU183J	MYLAR CAPACITOR
C264	1	MY-50VU683J	MYLAR CAPACITOR
C265	1	MY-50VU392J	MYLAR CAPACITOR
C266	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C267	1	S76R3TW101M	ELECTROLYTIC CAPACITOR
C268	1	HC10SJZF473Z	CERAMIC CAPACITOR
C269	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C270	1	MY-50VU332J	MYLAR CAPACITOR
C271,272	2	HE40SJCH220K	CERAMIC CAPACITOR
C273,274	2	HE40SJSL100K	CERAMIC CAPACITOR
C275,276	2	S7-50TW2R2M	ELECTROLYTIC CAPACITOR
C277,278	2	MY-50VU273J	MYLAR CAPACITOR
C279,280	2	MY-50VU683J	MYLAR CAPACITOR
C281,282	2	MY-50VU392J	MYLAR CAPACITOR
C283,284	2	S7-16TW100M	ELECTROLYTIC CAPACITOR
C290	1	HE40SJYB681K	CERAMIC CAPACITOR
C291,292	2	S7-25TW4R7M	ELECTROLYTIC CAPACITOR
C293,294	2	S7-16TW100M	ELECTROLYTIC CAPACITOR
C299	1	SL-35TW4R7M-RT	ELECTROLYTIC CAPACITOR

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
C311	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C312	1	S76R3TW221M-RT	ELECTROLYTIC CAPACITOR
C313	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C314	1	SL-16TW100M	LOW LEAK. ELECTROLYTIC CAP
C315	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C316	1	S7-16TW220M	ELECTROLYTIC CAPACITOR
C317	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C318,319	2	S7-16TW220M	ELECTROLYTIC CAPACITOR
C321	1	S7-25TW4R7M	ELECTROLYTIC CAPACITOR
C322	1	S7-50TW1R0M	ELECTROLYTIC CAPACITOR
C324,325	2	S7-25TW4R7M	ELECTROLYTIC CAPACITOR
C326	1	S7-16TW220M	ELECTROLYTIC CAPACITOR
C327~329	3	S7-25TW4R7M	ELECTROLYTIC CAPACITOR
C330	1	S7-16TW220M	ELECTROLYTIC CAPACITOR
C331	1	S7-50TW1R0M	ELECTROLYTIC CAPACITOR
C332,333	2	S7-25TW4R7M	ELECTROLYTIC CAPACITOR
C334,335	2	HE70SJYF103Z	CERAMIC CAPACITOR
C336,337	2	HE50SJCH300J	CERAMIC CAPACITOR
C338	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C339	1	S7-50TW1R0M	ELECTROLYTIC CAPACITOR
C340~342	3	MY-50VU104J	MYLAR CAPACITOR
C343	1	S7-50TW1R0M	ELECTROLYTIC CAPACITOR
C351,352	2	HE70SJYF103Z	CERAMIC CAPACITOR
C356	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
C357	1	S76R3TW101M-LC	ELECTROLYTIC CAPACITOR
C360	1	S7-16TW100M	ELECTROLYTIC CAPACITOR
RESISTORS			
R201,202	2	KA16ST471J	CARBON RESISTOR
R203,204	2	KA16ST224J	CARBON RESISTOR
R205,206	2	KA16ST104J	CARBON RESISTOR
R207,208	2	KA16ST472J	CARBON RESISTOR
R209	1	KA16ST203J	CARBON RESISTOR
R210	1	KA16ST103J	CARBON RESISTOR
R211	1	KA16ST203J	CARBON RESISTOR
R212	1	KA16ST472J	CARBON RESISTOR
R213,214	2	KA16ST103J	CARBON RESISTOR
R215	1	KA16ST104J	CARBON RESISTOR
R216,217	2	KA16ST103J	CARBON RESISTOR
R218	1	KA16ST153J	CARBON RESISTOR
R219	1	KA16ST104J	CARBON RESISTOR
R220~222	3	KA16ST821J	CARBON RESISTOR
R223,224	2	KA16ST104J	CARBON RESISTOR
R225	1	KA16ST821J	CARBON RESISTOR
R226	1	KA16ST153J	CARBON RESISTOR
R227	1	KA16ST473J	CARBON RESISTOR
R228	1	KA16ST752J	CARBON RESISTOR
R229	1	KA16ST103J	CARBON RESISTOR
R230	1	KA16ST752J	CARBON RESISTOR
R231	1	KA16ST153J	CARBON RESISTOR
R232	1	KA16ST473J	CARBON RESISTOR
R233~235	3	KA16ST103J	CARBON RESISTOR
R236,237	2	KA16ST474J	CARBON RESISTOR
R238	1	KA16ST821J	CARBON RESISTOR
R243	1	KA16ST104J	CARBON RESISTOR
R267	1	KA16ST473J	CARBON RESISTOR
R268	1	KA16ST472J	CARBON RESISTOR
R269	1	KA16ST105J	CARBON RESISTOR
R270,271	2	KA16ST104J	CARBON RESISTOR
R272,273	2	KA16ST112J	CARBON RESISTOR
R274~277	4	KA16ST821J	CARBON RESISTOR
R278~281	4	KA16ST104J	CARBON RESISTOR
R282,283	2	KA16ST224J	CARBON RESISTOR
R284,285	2	KA16ST471J	CARBON RESISTOR
R286,287	2	KA16ST104J	CARBON RESISTOR
R302	1	KA16ST473J	CARBON RESISTOR
R303	1	KA16ST332J	CARBON RESISTOR
R304	1	KA16ST222J	CARBON RESISTOR
R305,306	2	KA16ST104J	CARBON RESISTOR
R307	1	KA16ST103J	CARBON RESISTOR
R308	1	KA16ST104J	CARBON RESISTOR
R309	1	KA25SS106J	CARBON RESISTOR
R310	1	KA16ST474J	CARBON RESISTOR
R311	1	KA16ST103J	CARBON RESISTOR
R312	1	KA16ST183J	CARBON RESISTOR
R313~315	3	KA16ST103J	CARBON RESISTOR
R316	1	KA16ST203J	CARBON RESISTOR
R317	1	KA16ST223J	CARBON RESISTOR
R318	1	KA16ST335J	CARBON RESISTOR
R319	1	KA16ST223J	CARBON RESISTOR
R320	1	KA16ST333J	CARBON RESISTOR
R321,322	2	KA16ST103J	CARBON RESISTOR
R323	1	KA16ST224J	CARBON RESISTOR
R324	1	KA16ST471J	CARBON RESISTOR
R325	1	KA16ST473J	CARBON RESISTOR
R326	1	KA16ST224J	CARBON RESISTOR
R327	1	KA16ST471J	CARBON RESISTOR
R328	1	KA16ST473J	CARBON RESISTOR
R329	1	KA16ST273J	CARBON RESISTOR
R330	1	KA16ST104J	CARBON RESISTOR
R331,332	2	KA16ST103J	CARBON RESISTOR
R333	1	KA16ST471J	CARBON RESISTOR
R334	1	KA16ST473J	CARBON RESISTOR
R335	1	KA16ST224J	CARBON RESISTOR
R336	1	KA16ST473J	CARBON RESISTOR
R337	1	KA16ST331J	CARBON RESISTOR
R338	1	KA16ST271J	CARBON RESISTOR
R339	1	KA16ST273J	CARBON RESISTOR
R340~342	3	KA16ST104J	CARBON RESISTOR
R343	1	KA16ST203J	CARBON RESISTOR
R344	1	KA16ST224J	CARBON RESISTOR
R345	1	KA16ST471J	CARBON RESISTOR
R347	1	KA16ST681J	CARBON RESISTOR
R348	1	KA16ST122J	CARBON RESISTOR
R350~352	3	KA16ST561J	CARBON RESISTOR
R354	1	KA16ST472J	CARBON RESISTOR
R355~357	3	KA16ST332J	CARBON RESISTOR
R358,359	2	KA16ST473J	CARBON RESISTOR
R362	1	KA16ST222J	CARBON RESISTOR
R363	1	KA16ST473J	CARBON RESISTOR
R364	1	KA16ST474J	CARBON RESISTOR

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
R365~368	4	KA16ST104J	CARBON RESISTOR
R369	1	KA16ST223J	CARBON RESISTOR
R370,371	2	KA16ST104J	CARBON RESISTOR
R372	1	KA16ST472J	CARBON RESISTOR
R374	1	KA16ST104J	CARBON RESISTOR
R375	1	KA16ST821J	CARBON RESISTOR
R380	1	KA16ST104J	CARBON RESISTOR
R381,382, 399	3	KA16ST103J	CARBON RESISTOR
RA301	1	RA-SP-08104J	BLOCK RESISTOR
SVR203	1	SVR-06T36103	SEMI-VARIABLE RESISTOR
SVR204	1	SVR-06T36104	SEMI-VARIABLE RESISTOR
COILS			
L301	1	LAL03471K	INDUCTOR
MISCELLANEOUS			
F201	1	CSA3.68MG	CERAMIC OSILLATOR UNIT
F202	1	CSA4.19MG	CERAMIC OSILLATOR UNIT
1W 3	1	2HJ263809-J-J	3-LEAD,FLAT CABLE
1W 8	1	2HJ265816-J-J	5-LEAD,FLAT CABLE
1W13	1	2HJ267821-J-J	7-LEAD,FLAT CABLE
1W17	1	2HJ269810-J-Z	9-LEAD,FLAT CABLE
1W19	1	0075220A17-J-J	SOLDER PLATED WIRE
1W20	1	0075220A05-J-J	SOLDER PLATED WIRE
EL201~203	3	M1698	GND LUG
MP401	1	1-173981-0	MICRO PLUG
MP402	1	173981-8	MICRO PLUG
MP403	1	173981-5	MICRO PLUG
MP405,406	2	173981-2	MICRO PLUG
MP407	1	173981-3	MICRO PLUG
MP408	1	173981-6	MICRO PLUG
MP409	1	173981-7	MICRO PLUG
MP413	1	173981-5	MICRO PLUG
MP421	1	173981-3	MICRO PLUG
MP451	1	173981-2	MICRO PLUG
MP453	1	173981-3	MICRO PLUG
MP454	1	P125C-03M	MICRO PLUG
MP501,502	2	173981-3	MICRO PLUG
MP505	1	173981-9	MICRO PLUG
MP701	1	173981-3	MICRO PLUG
MP800	1	173981-2	MICRO PLUG
MP802	1	173981-3	MICRO PLUG
MP905	1	173981-9	MICRO PLUG
TP201	1	171825-3	MICRO PLUG
26E26	65	E050	JUMP WIRE
26E27	5	E075	JUMP WIRE
26E28	148	E100	JUMP WIRE
26E29	17	E125	JUMP WIRE
26E30	20	E150	JUMP WIRE

MOTOR VOLUME P.C.BOARD

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
P.C.BOARD			
26E24	1	MVR-8273	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
IC405	1	L31641	IC
ZD401	1	Z050-062	ZENER DIODE,1/2W,6.2V
CAPACITORS			
C420	1	HC10SJZF473Z	CERAMIC CAPACITOR
C421	1	HE70SJYF103Z	CERAMIC CAPACITOR
C422	1	MS-16TW470M	ELECTROLYTIC CAPACITOR
RESISTORS			
R437,438	2	KA16ST133J	CARBON RESISTOR
R445	1	KA16ST100J	CARBON RESISTOR
VR401	1	V3V16-10A4MF5	ROTARY POTENTIOMETER
MISCELLANEOUS			
CN451	1	MZ02-819	MICRO SOCKET ASS'Y
CN453	1	MZ03-830	MICRO SOCKET ASS'Y
EL451	1	598S1692	GND LUG
MP422	1	171825-5	MICRO PLUG
MP601,801	2	173981-3	MICRO PLUG
MP902	1	173981-2	MICRO PLUG
25E 1	2	E050	JUMP WIRE
25E 2	4	E075	JUMP WIRE
25E 3	1	E100	JUMP WIRE
CNV001	1	MZ05-833	MICRO SOCKET ASS'Y

T SWITCH P.C.BOARD

F. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
BOARD			
E25	1	FSW-8278	PRINTED CIRCUIT BOARD
CONDUCTORS			
430~435	6	SLB-55DU5F	LED
436	1	SLB-55VR5F	LED
437~442	6	SLB-55DU5F	LED
443	1	SLB-55VR5F	LED
STORS			
441	1	KA16ST561J	CARBON RESISTOR
442	1	KA16ST681J	CARBON RESISTOR
452~463	12	KA16ST331J	CARBON RESISTOR
CHES			
426~433	14	SDA-124HS	TACT SWITCH
ELLANEOUS			
401	1	MZ10-823A	MICRO SOCKET ASS'Y
402	1	MZ08-922	MICRO SOCKET ASS'Y
E18	3	E050	JUMP WIRE

R PARTS

F. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
ELLANEOUS			
W21	1	007S220B18-D-J	SOLDER PLATED WIRE
E17	2	CNT31-0074	SHORT PIN
E19	1	VJR-3	SNAKE LUG
E25,E26	12	BK-1	CORD CLAMP
E27	1	NO.5167	CORD CLAMP

ODED VIEWS

F. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
S			
900	1	NPT-2804	POWER TRANSFORMER
901	1	NPT-2814	POWER TRANSFORMER
E 8	1	171003	LOOP ANT
E 9	1	LA-75	ANT. HOLDER
ELLANEOUS			
M 1	1	N21805-1	FRONT PANEL
M 3	1	N45714-1	SUB PANEL(L)
M 4	1	N31115-1	SUB PANEL(R)
M 5	2	BK4006A-BK1	HANDLE
M 6	4	N44092-BK1	HANDLE SPACER
M 8	1	N31117	FRONT GLASS
M 9	1	N31113-1	DISPLAY GLASS
M10	2	N45710-1	FUNCTION GLASS
M12	1	N31119-T-BK1	KNOB 33
M13	4	N44260-T-BK1	KNOB 12
M14	1	N45522	LED CHIP
M15	2	N45668	TACT BUTTON
M16	1	N45663-2	TACT BUTTON
M17	1	N45663-4	TACT BUTTON
M18	2	N45686	TACT BUTTON
M19	2	N31116	TACT BUTTON,7
M20	6	N45646A	PUSH BUTTON
M21	2	N42797-BK1	DECORATION SCREW
M23	1	N21817	CABINET
M25	1	N21819A-18	REAR PANEL
M26	1	N21818	BOTTOM BOARD
M27	4	NO.7104	FOOT
M29	1	N19565-1	FRONT BASE
2M 2	1	N21803	CENTER METAL,1
2M 3	1	N31125	CENTER METAL,2
2M 4	1	N31124	SIDE METAL,R
2M 5	1	N31123	SIDE METAL,L
2M 7	2	N42722A	FITTINGS (P.T.)
2M11	1	N45711	VR METAL,1
2M12	1	N45713	VR METAL,2
2M13	1	N45712	PCB METAL,2
2M15	1	N31133	INSULATION SHEET
2M16	2	N45813	SHEET,SHIELD
2M18	1	N45811	RT CUSHION
2M19	1	N45789B	RT CUSHION
2M20	1	N45797	SPACER
2M21	1	N45774	CUSION
2M24	4	BPS-309	LED SPACER
2M25	1	N21802	LED HOLDER
2M28	4	N40848G	SHAFT TAPE
3M 1	1	N41313-1	POLYETHYLENE BAG
3M 2	1	N40487	POLYETHYLENE BAG (ACCESSORIES)
3M 3	2	N21375A-1	PACKING PAD
3M 5	1	N21844-2A	INNER CARTON
3M11	1	N31068	PACKING PAD(FRONT)
3M12	1	N44675	PACKING PAD(TOP)
3M14	1	OM-966A	INSTRUCTION MANUAL
3M16,M17	2	N45335	LABEL,SERIAL NO.
3M18	2	N42235	SHEET, SERIAL NUMBER
3M19	1	N44043	LABEL, SA1965(LIGHTNING FLASH)
3M22	1	N41939	LABEL, FUSE
3M24	1	N31136	WARRANTY R
3M25	1	N31137	LIMITED WARRANTY
3M27	1	N45775	LABEL,PRO-LOGIC
3M29	1	N45487	LABEL, UL
4M 1~M 3	9	T3P+26X06-Y	TAP SCREW B, PAN HEAD, Y
4M 7	4	T3S+30X06-Y	TAP SCREW B, FLAT HEAD, Y
5M11~M19	27	T3B+30X06-B	TAP SCREW B, BIND HEAD, B

REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
5M 8~M10, M12~M16	23	T3B+30X08-B	TAP SCREW B, BIND HEAD, B
5M21~M30	17	T3P+30X06-B	TAP SCREW B'PAN HEAD,B
6M 1~M 7	14	T3C+30X06-Y	TAP SCREW B, WASHER FACED, Y
6M12	1	T3C+30X18-Y	TAP SCREW B,WASHER FACED,Y
6M15	2	T3B+40X10-B	TAP SCREW B,BIND HEAD,B
6M18~M20	10	T3B+40X10-B	TAP SCREW B, BIND HEAD, B
6M25	4	S3PS2+40X10-B	SCREW-SP ASSY, PAN HEAD,B
6M28	1	2TWX30-Y	TOOTHED LOCK WACHER
37E17	1	MET41-0105	SNAP PLATE
46E 1	1	ACC-02204-4EE1	LINE CORD
46E 3	1	SR-4N-4	CORD STOPPER
46E 5	1	YKD41-0004	GROUND TERMINAL
46E 6	1	TA-307	ONE TOUCH COLLAR
46E10	1	TANT-364	FM ANTENNA (CORD)
46E11	1	YAE21-00010	MATCHING ADAPTOR
46E12	3	KGLS-16RT	LOCKING SUPPORT
46E14	1	RC-CT17	REMOTE CONTROL TRANSMITTER
46E15	1	UM-3-2	BATTERY
46E20,E21	2	R-024-12	CABLE ASS'Y

P.C.BOARD ASS'Y

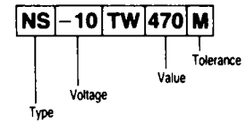
REF. NO.	Q'TY	CARVER PART NO.	DESCRIPTION
10P 7	1		TUNER P.C.BOARD
25P23	1		MICOM SURROUND P.C.BOARD
25P24	1		MOTOR VOLUME P.C.BOARD
25P25	1		FRONT SWITCH P.C.BOARD
33P25	1		FUNCTION & EQ P.C.BOARD
33P26	1		AUDIO SWITCH P.C.BOARD
33P27	1		POWER SWITCH P.C.BOARD
33P28	1		HEADPHONE P.C.BOARD
33P29	1		VOLUME LED P.C.BOARD
35P 3	1		DISPLAY & DTS P.C.BOARD
44P 4	1		POWER SUPPLY P.C.BOARD
44P 5	1		VIDEO P.C.BOARD
44P 6	1		TONE CONTROL P.C.BOARD

DIFFERENT PARTS LIST

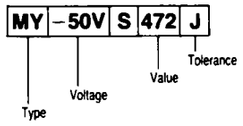
Ref.No.	Description	CT-17(UL)	CT-17(EX)
TUNER P.C.BOARD			
C055,056	MYLAR CAPACITOR	MY-50VU102J	–
C055,056	CERAMIC CAPACITOR	–	HE11SJSL681J
C073,074	CERAMIC CAPACITOR	–	HE80SJSL331J
SW051	SLIDE SWITCH	–	SW-5220157
POWER SUPPLY P.C.BOARD			
SW900,901	SWITCH	–	SW-5220218
DISPLAY & DTS P.C.BOARD			
D453,454	DIODE	–	GMA01
SW459	SLIDE SWITCH	–	SW-5121298

Capacitors Description

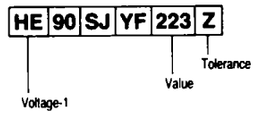
• **Electrolytic**

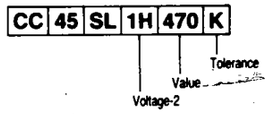


• **Mylar · Styrol**



• **Ceramic**



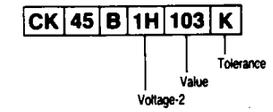


• **Electrolytic**

Type	Voltage	Value	Tolerance
LL: Low Leak	–10: 10V	R47: 0.47μF	K: ±10%
NP: Non-Pole	–50: 50V	4R7: 4.7μF	M: ±20%
NS: Standard	6R3: 6.3V	470: 47μF	
		471: 470μF	
		472: 4700μF	

• **Mylar · Styrol**

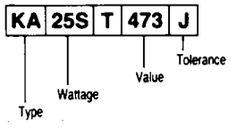
Type	Voltage	Value	Tolerance
MY: Mylar	–25V: 25V	4R7: 4.7pF	G: ±2%
ST: Styrol	125V: 125V	470: 47pF	J: ±5%
	–63T: 63V	471: 470pF	K: ±10%
		472: 4700pF	M: ±20%
		473: 0.047μF	
		474: 0.47μF	
		(1000pF=0.001μF)	



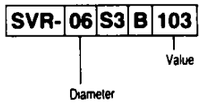
Voltage-1	Voltage-2	Value	Tolerance
HC: 25V	1E: 25V	4R7: 4.7pF	C: ±0.25pF
HE: 50V	1H: 50V	470: 47pF	D: ±0.5pF
H: 100V	2H: 500V	471: 470pF	F: ±1pF
HK: 250V		472: 4700pF	J: ±5%
HM: 500V		473: 0.047μF	K: ±10%
		474: 0.47μF	M: ±20%
		(1000pF=0.001μF)	Z: +80~–20%

Resistors Description

• **Fixed**



• **Semi-Variable**



Type	Wattage	Value	Tolerance	Diameter
CE: Cement Case	–2W: 2W	R47: 0.47Ω	M: ±20%	08: 8φ
FR: Flame Proof	10W: 10W	4R7: 4.7Ω	K: ±10%	10: 10φ
KA: Carbon	16S: 1/6W	470: 47Ω	J: ±5%	06: 6φ
MF: Metal Film	20S: 1/5W	471: 470Ω	G: ±2%	
RF: Fusible	25S: 1/4W	472: 4.7kΩ	F: ±1%	
SA: Metal Oxide	50S: 1/2W	473: 47kΩ	D: ±0.5%	
	50X: 1/2W	474: 470kΩ		
	S3W: 3W	475: 4.7MΩ		

SCHEMATIC DIAGRAMS

(UL Version only)

NOTES

1. All resistor are 1/4 watts or 1/6 watts 5% unless marked otherwise. Resistor values are in ohms. (K=1000 ohms, M=1000K ohms)
2. All capacitor values are in microfarads. (P=picofarads)
3. Each D.C voltage shows the nominal values in volts no input signal.
4. ⚠ is Safety Parts. Use only replacement parts recomended by the manufacturer.
5. FR : FLAME PROOF RESISTOR.

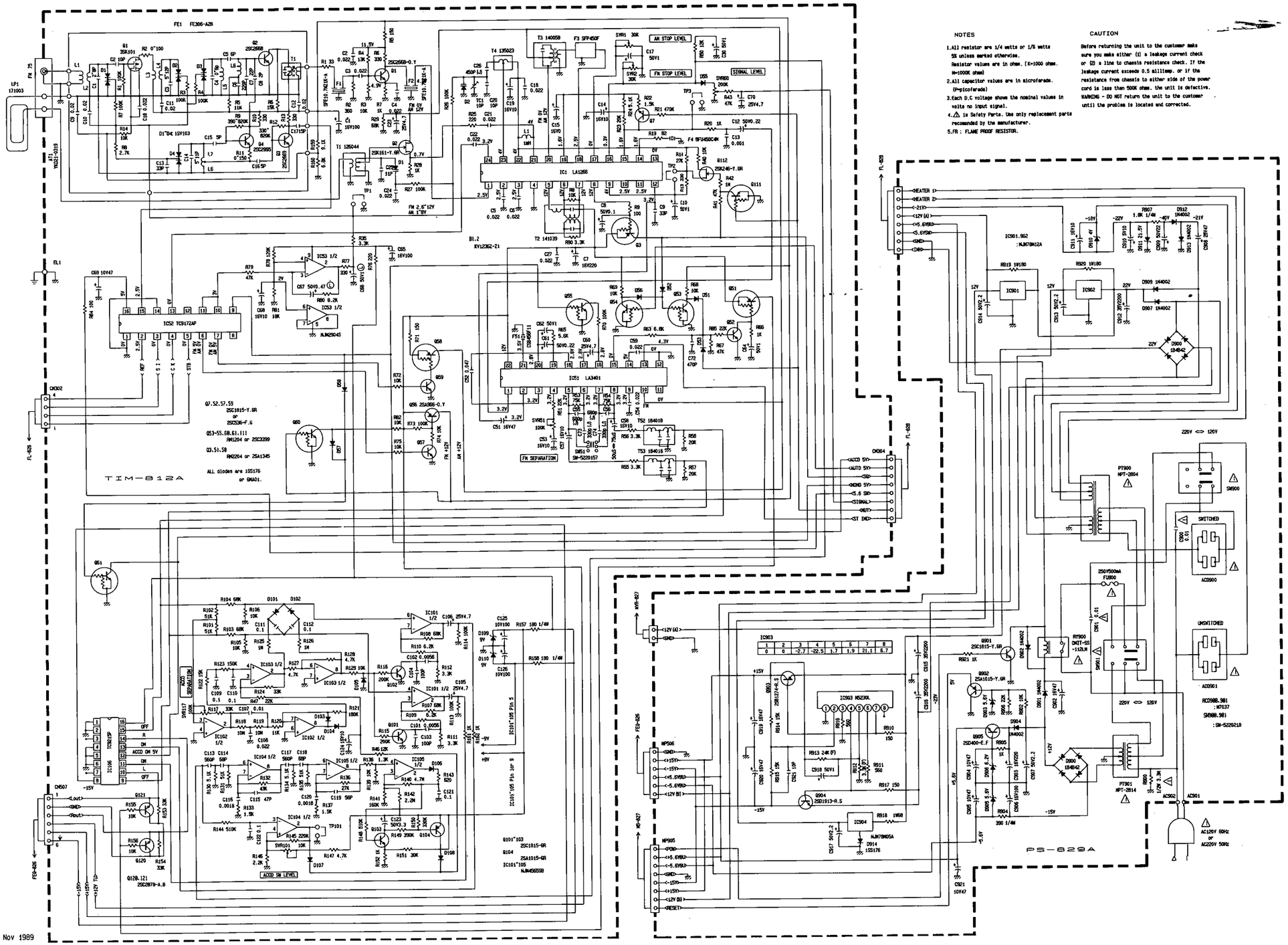
CAUTION

Before returning the unit to the customer make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamp, or if the resistance from chassis to either side of the power cord is less than 500K ohms, the unit is defective.
WARNING - DO NOT return the unit to the customer until the problem is located and corrected.

TIM-812A

PS-829A

(EX Version only)


TIM-812A
PS-829A
NOTES
1.All resistor are 1/4 watts or 1/6 watts 5% unless marked otherwise. Resistor values are in ohms. (K=1000 ohms. M=1000K ohms)
2.All capacitor values are in microfarads. (P=picofarads)
3.Each D.C voltage shows the nominal values in volts no input signal.
4.⚠ is Safety Parts. Use only replacement parts recomended by the manufacturer.
5.FR : FLAME PROOF RESISTOR.
CAUTION
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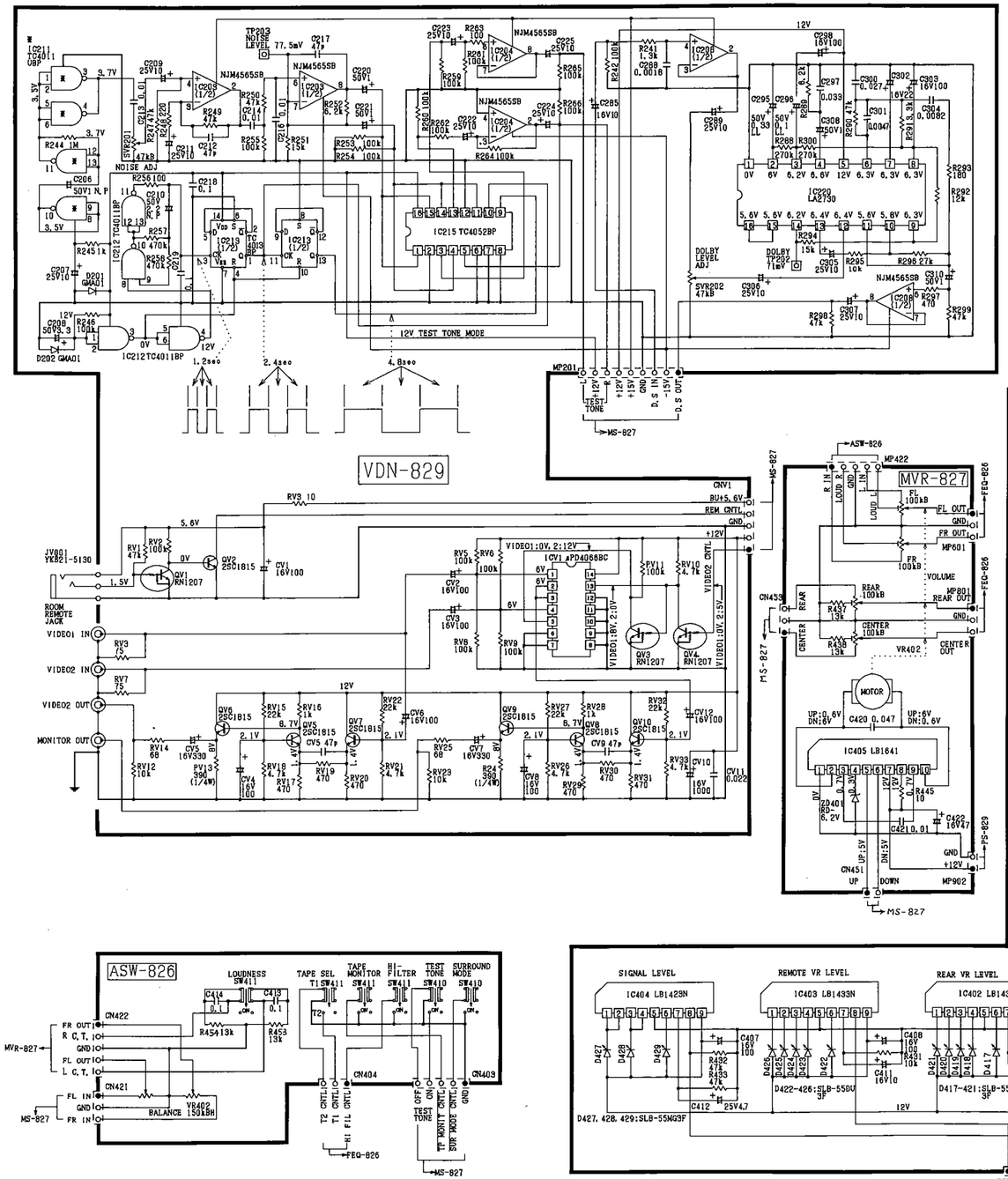
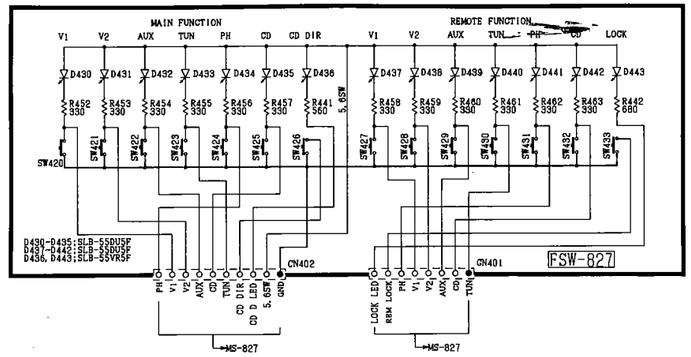
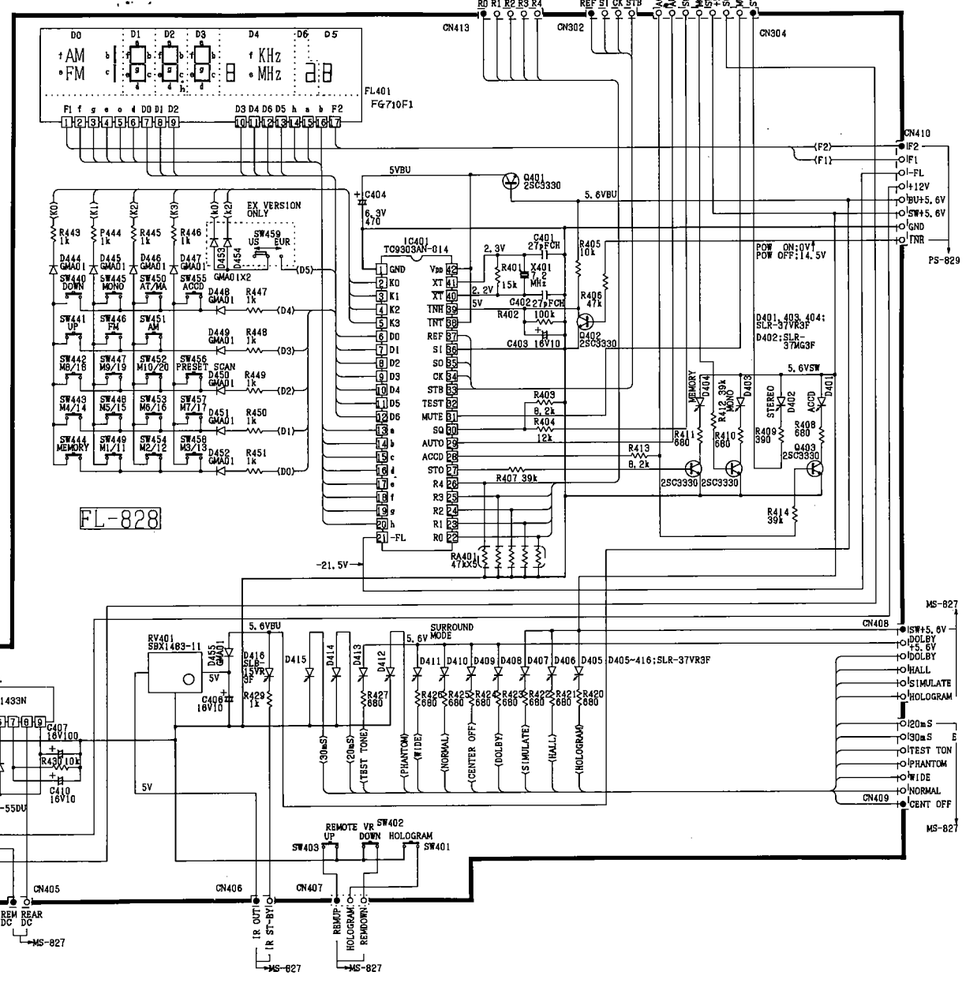
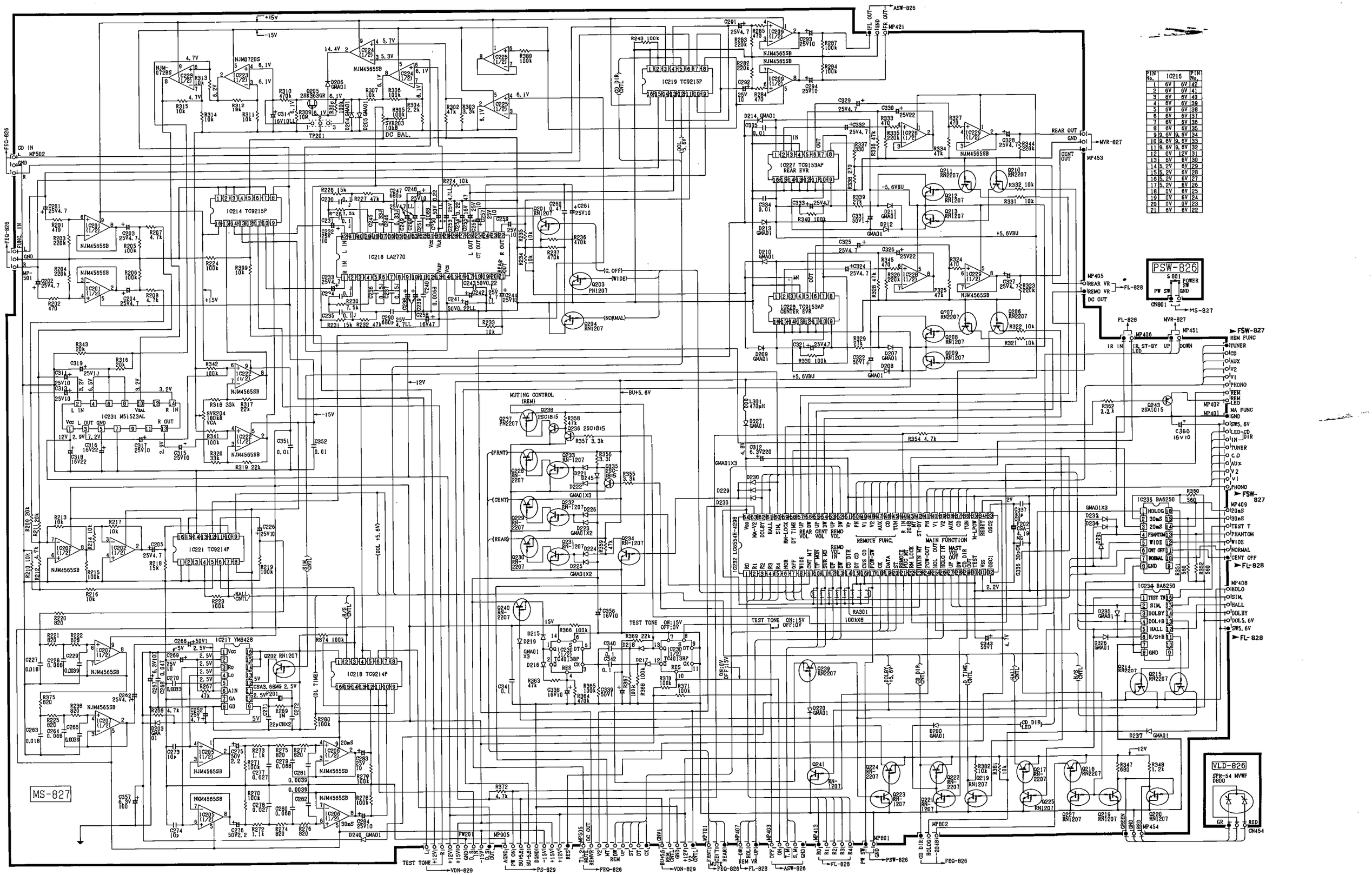
WARNING - DO NOT return the unit to the customer until the problem is located and corrected.
20 Nov 1989

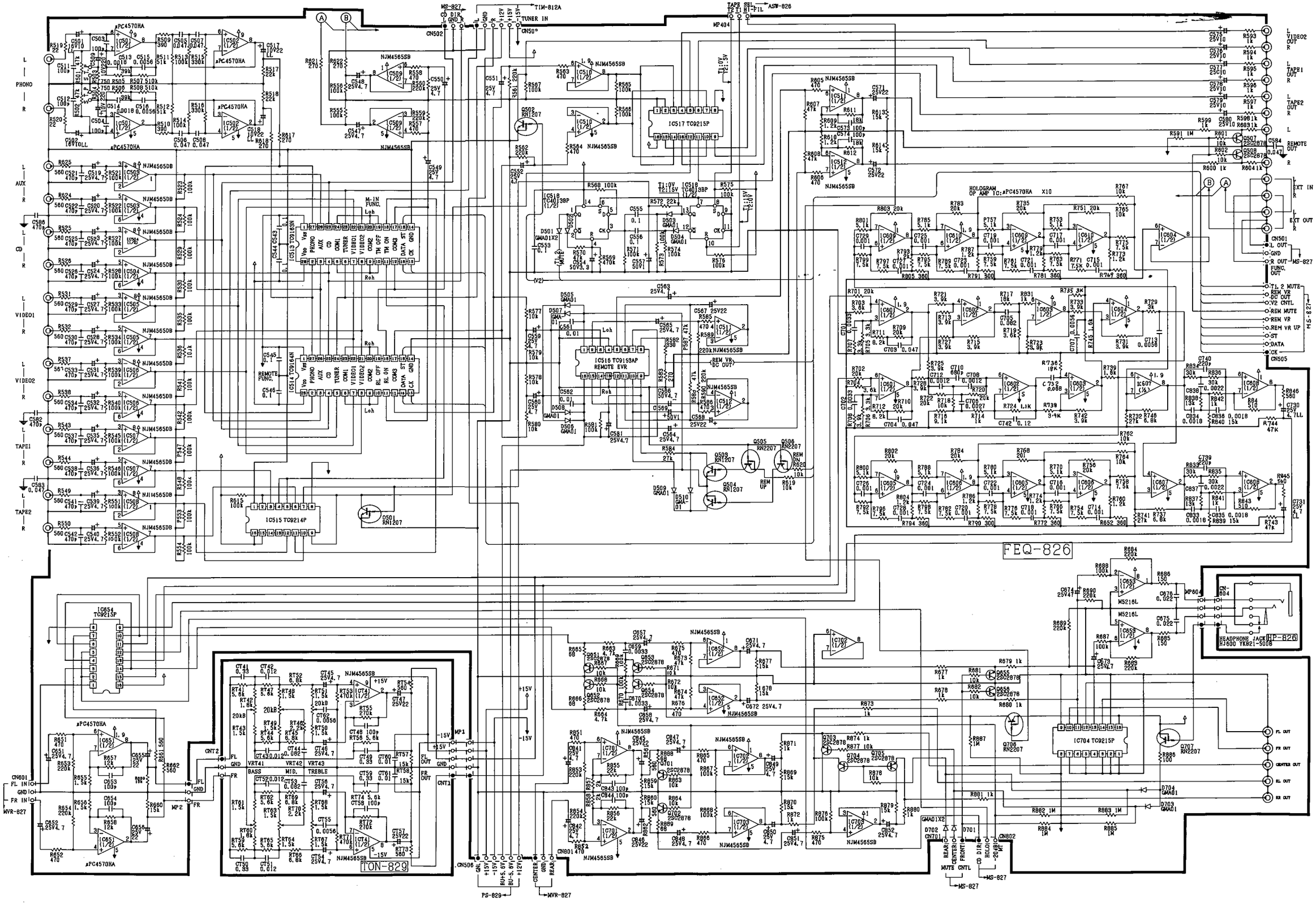

VDN-829
MVR-827
ASW-826
FEG-826
PS-829
MS-827
12V TEST TONE MODE
1.2sec
2.4sec
4.8sec
NOISE ADJ
ROOM REMOTE JACK
VIDEO1 IN
VIDEO2 IN
VIDEO2 OUT
MONITOR OUT
REAR
CENTER
VOLUME
MOTOR
REM REAR DC DC
IR OUT/IN
REMKEY
HOLOGRAM
REMDOWN
SW401
SW402
SW403
REMOTE VR UP DOWN HOLOGRAM


MAIN FUNCTION
REMOTE FUNCTION
V1 V2 AUX TUN PH CD CD DIR LOCK
D430-D436:SLB-55DU5F
D437-D442:SLB-55DU5F
D436,D443:SLB-55VR5F
FSW-827
MS-827


FL-828
FG-710F1
FL401
TIM-812
CN413
CN302
CN304
CN410
PS-829
MS-827
CN408
CN409
SURROUND MODE
REMOTE VR UP DOWN HOLOGRAM
SW401
SW402
SW403
CN405
CN406
CN407
SIGNAL LEVEL
REMOTE VR LEVEL
REAR VR LEVEL
D405-416:SLR-37VR3F
D417-421:SLB-55DU
D422-426:SLB-550U
D427.428.429:SLB-55MG3F



PIN No.	IC216	PIN No.
1	6V	42
2	6V	41
3	6V	40
4	6V	39
5	6V	38
6	6V	37
7	6V	36
8	6V	35
9	9.6V	34
10	9.6V	33
11	9.6V	32
12	0V	31
13	6V	30
14	5.2V	29
15	5.2V	28
16	5.2V	27
17	5.2V	26
18	0V	25
19	0V	24
20	0V	23
21	6V	22


FEQ-826
TON-829
HP-826
MS-827
MVR-827
PS-829
CN501
CN502
CN504
CN505
CN506
CN601
CN801
CN802
MP1
MP2
MP404
MP604
L VIDEO2 OUT R
L TAPE1 OUT R
L TAPE2 OUT R
L REMOTE OUT R
L EXT IN R
L EXT OUT R
L OUT
GND
R OUT
FUNC. OUT
TL 2 MUTE
REM VR
DC OUT
V2 CNTL
REM MUTE
REM VR
REM VR UP
ST
DATA
CK
FL OUT
FR OUT
CENTER OUT
SL OUT
SR OUT
PHONO
AUX
CD
VIDEO1
VIDEO2
TAPE1
TAPE2
TUNER IN
CD DIR
TAPE SEL
REMOTE EVR
REM VR/ DC OUT
HOLDGRAM OF AMP IC:μPC4570HA X10
IC517 TC9215P
IC516 TC9159AP
IC515 TC9214P
IC654 TC9215P
IC704 TC9215P
IC513 TC9148N
IC514 TC9164N
NJM4565SB
NJM4565DB
μPC4570HA
M5216L
REAR
CENTER
FRONT
MUTE CNTL
CD DIR
HOLD
-20dB
MT